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Business Support on Your Doorstep

H2020 Agrofood sector Partnership Profiles Catalogue 2014-2015

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*Sector Group Agrofood
Enterprise Europe Network*



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Background

This Catalogue has been developed as a joint initiative by the members of the Enterprise Europe Network – Sector Group Agrofood. The main aim is to encourage the Participation of SMEs in the Agrofood theme of Horizon2020 Programme.

A transition is needed towards an optimal and renewable use of biological resources and towards sustainable primary production and processing systems. These systems will need to produce more food, fibre and other bio-based products with minimised inputs, environmental impact and greenhouse gas emissions, and with enhanced ecosystem services, zero waste and adequate societal value.

Agriculture, forestry, fisheries and aquaculture, together with the bio-based industries, are integral parts of the European economy and society. Relying on the use of limited natural resources, these sectors produce and process biological resources to satisfy the demand of consumers and a wide range of industries for food, feed, bio-energy and bio-based products. While they enhance Europe's self-reliance and provide jobs and business opportunities essential for rural, coastal and marine areas, these sectors are also facing significant challenges which require solutions based on research and innovation.

The H2020 – Agrofood Partnerships Profiles Catalogue intends to be an effective tool to promote the participation of European SMEs, R&D groups and Technological centres at European Funding Programmes.

Most of the profiles included in this Catalogue are focused to the specific topics published in the current open calls related to Societal Challenge 2: "Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy"

Moreover, profiles in other H2020 areas related to the agrofood sector have also been published in this catalogue.

For more information on the open calls, you can access the Participants Portal's website of the European Commission:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

For more information on this catalogue, please contact Ms. Cristina Cabeza, *Enterprise Europe Network – CESEAND*, cristina.cabeza@juntadeandalucia.es or +34 955 007 497

Enterprise Europe Network

The Enterprise Europe Network offers support and advice to businesses across Europe and helps them make the most of the opportunities in the European Union. Our services are specifically designed for small and medium enterprises (SMEs) but are also available to all businesses, research centres and Universities across Europe.

The [Enterprise Europe Network](#) is the largest network of contact points providing information and advice to EU companies on EU matters, in particular small and medium enterprises (SMEs). We provide practical answers to specific questions in your language.

The Network offers concrete and effective solutions to entrepreneurs and companies in more than 50 countries, including the 27 EU member states, three EU candidate countries (Croatia, the former Yugoslav Republic of Macedonia and Turkey), members of the European Economic Area (EEA) and other participating third countries.

The Enterprise Europe Network is unique both in terms of its wide geographic reach and of the wide range of integrated services it provides to SMEs and other business actors. This is made possible thanks to the coordinated action of nearly 600 local partner organisations, employing around 4.000 experienced staff working to support the competitiveness of EU businesses.

Launched in 2008 by the European Commission, the Enterprise Europe Network offers a “one-stop shop” to meet all the information needs of SMEs and companies in Europe.

Sector Group Agrofood

The agrofood industry is the largest manufacturing sector in Europe. This is a complex sector, composed by a large number of SMEs with very different profiles, lengths, and business areas. Innovation plays in this sector a key role to be competitive, but due to the complexity of the sector it is necessary to make an additional effort to reach the companies taking into account the different sectors realities. This is the reason for the creation of the Agrofood Sector Group within the Enterprise Europe Network. The Agrofood Sector Group is a bottom up activity from Enterprise Europe Network partners who have in their region a high number of companies working in the agrofood sector and want to impulse their innovation process.

The mission of the Agrofood Sector Group is to enhance cooperation on the agrofood area of the Enterprise Europe Network.

Every member is committed to develop the ASG within their own geographical area. They are coming together in this Sector Group because they recognise the increasing potential of international activity in this industrial field, and moreover, because the service to their clients can be improved by they can serve their clients better by focusing on this specific sector.

The main objective is twofold, to contribute to raising the innovation capacity of the SMEs through the information, promotion of technology transfer and business cooperation and to feedback the EC policies in the agrofood sector with the real interests of the industry.

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0001)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and
- Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,

<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Geographica would like to hereby express our greatest interest in collaborating in projects under the issue C. Assessing sustainability of terrestrial livestock production [2015] based on research and innovation about socio-geographic and demographic changes of farming community and projections, including the dimensions of territories and elaborating indicators . We think that the initiatives promoted are really challenging for an organization like Geographica with experience in geospatial technologies that integrates, analyze, and display data and spatial information, reporting, creation of indicators in real time, make hypothetical scenarios, projections and comparisons of them, and perform evolutive studies.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document



Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0002)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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Country: Spain

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0003)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client´s requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicules

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- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production

 **C.I.S.A.O. – INTERDEPARTMENTAL CENTRE OF RESEARCH AND COLLABORATION WITH SAHELIAN AND WEST AFRICAN COUNTRIES**

R&D Institution

*PROFILE from Italy
(14IT0004)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

C.I.S.A.O. – Interdepartmental Centre of Research and Collaboration with Sahelian and West African Countries To this centre belong researchers and professors of Departments of the University of Turin, Public Research Institutions and independents technical and teaching assistants.

The departments involved are:

- Department of Chemistry;
- Department of Economy "S. Cagnetti De Martiis";
- Department of Agricultural, Forest and Food Sciences and Technologies;
- Department of Veterinary Sciences;
- Department of Geological Sciences;
- Department of Cultures, Politics and Societies.

Principal activities of the centre are the coordination of decentralized projects funded by the Piedmont Region in the 2000 in the programme "Fight against poverty and food security". Every year new projects develop different activities such as animal production, animal health, conservation of endangered breeds, agricultural productions, economics researches (cooperatives, women associations), environmental protection activities, etc. Moreover the centre has been involved in

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many other projects, such as the IAO Gender Project (Italian Foreign Ministry – DGCS), the UNI.COOP. Project (University of Turin – Foundation of Casse di Risparmio del Piemonte), 4CITIESXDEV (Europeaid).

On October 2013 has begun the Higher Education Program EU-ACP titled R.U.S.S.A.D.E. (Network of Sahelian Universities for Food Security and Environmental Sustainability – FED/2013/320-115). The overall objective of the project is to mobilize knowledge and know-how to fight hunger and poverty and to increase environmental care in a sustainable development perspective, improving life conditions of the population and reducing the gender gaps in employment access and in sharing knowledge. The specific objective is to enhance higher education systems through Master courses to give technical, scientific and methodological bases to the students, allowing them to manage natural resources and to improve agriculture and food security with a multidisciplinary and interdisciplinary approach.

Expertise offered (related to the topic)

The main objective is the improvement of the conditions of life of the sub-Saharan populations and the eradication of extreme poverty and hunger.

The opportunity of a multidisciplinary approach, even in a defined circle (i.e. a rural community), is really important because leaving from single and specific interventions it can support the others through the immediate transfer of the results of the various experiences. The single activities for the last decade are:

- monitoring and improving milk production (quantitative and qualitative controls) and animal nutrition in Niger (Toukounous Station) and in Burkina Faso (Groupement d'éleveur Ben Kadi – Bobo Dioulasso);
- conservation programme of the Somba cattle breed in the Atacora Region, North Benin (Boukombé and Natitingou);
- epidemiologic controls (infections and tick diseases) in the peri-urban area of Bobo Dioulasso, Burkina Faso, and in Mali;
- goat breed selection programme in S. Antao Island (Cape Verde);
- sanitary controls for a traditional cheese production in S. Antao Island (Cape Verde);
- use of natural insecticides in Sahel;
- support to beekeeping in Niger, Burkina Faso and Mali;
- support to good management of garbage in Cape Verde, scholar educational programme;

- management of protected areas and natural parks in Senegal and Burkina Faso;
- support to women associations in Burkina Faso;
- support to farmer's associations and cooperatives in Senegal and Burkina Faso;
- recycling of plastic refusals in Niger.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production

 **FRANKENFOERDER FORSCHUNGSGESELLSCHAFT MBH**
R&D Institution
PROFILE from Germany
(14DE0005)

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Frankenfoerder Forschungsgesellschaft (FFG) was established in 1991. The FFG is based in Luckenwalde (Brandenburg) and has a scientific department in Berlin. Applied research in the field of agriculture, veterinary medicine and nutrition is the main focus of the non –profit Research Foundation. With permanently employed staff, a team of freelance collaborators and a wide network of national and international partners the FFG perceives itself as a link between science and practice. The FFG has a broad spectrum of research and development expert knowledge and carries out applied research and development for the benefit of small and medium-size-businesses. The know-how for healthy food and innovative products as well as the creation of optimal conditions for healthy animals could and can be applied in different research projects, for example:

- Network "ProtectAnimal": innovative modern technologies, methods and products for sustainable livestock production
- Development of an innovative multifunction box for sensor based care and treatment of hooves and teats in cows including the monitoring of animal health
- Development of a practice rapid test to determine the total bio burden of liquid media

Expertise offered (related to the topic)

In the constant process of change, especially in agriculture, veterinary medicine and nutrition, new challenges for innovative products and techniques are required. The Frankenfoerder Forschungsgesellschaft provides the know-how for the industry.

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Core competencies agriculture and veterinary medicine:

- Animal monitoring systems
- Development of methods for early diagnosis and prevention of diseases of large and small animals
- Development of strategies for the sustainable control of pathogens in all stages of the animal production, slaughter and processing
- Alternative solutions for the replacement of antibiotics
- Examinations of husbandry conditions and their influence on animal behavior
- Status determination of health and fertility of the livestock

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



RESEARCH GROUP: "SALUD GASTROINTESTINAL" (AGR-259). ESTACIÓN EXPERIMENTAL DEL ZAIDIN (CSIC)

R&D Institution

*PROFILE from Spain
(14ES0266)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC) is the largest public multidisciplinary research organisation in Spain. CSIC collaborates with national and International universities, public RTD organisations, SMEs, companies and other institutions of a scientific/technological nature. It has a staff of more than 13,500 employees, among these about 3,500 are permanent researchers and more than 4,000 are pre- and post-doctoral researchers. The CSIC has 135 institutes or centres distributed throughout Spain, including 51 Joint Research Units with universities or other research institutions. There is also a delegation in Brussels. It has considerable experience in both participating and managing RTD projects and training of research personnel. Under the 6th Framework Programme CSIC has signed 404 actions (of which 37 coordinated by CSIC). CSIC has been the 5th organisation in Europe in project execution and funding in the 6th Framework Programme. Under the 7th Framework Programme CSIC has signed as of today more than 440 projects (including 42 coordinated by CSIC as well as 22 ERC).

Expertise offered (related to the topic)

Our group (called Gastrintestinal Health) has contributed significantly to the development of the use of additives in animal production by means of scientific publications and collaborations with the industry (contracts, patents, etc.).

From a scientific point of view, we are interested in the study of the governing intestinal microbiota equilibrium in pigs and broiler chickens. These studies may also open new ways to modulate the

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intestinal microbiota to our benefit, and to improve welfare conditions in animals (pigs) and birds (poultry). From a practical point of view, we expect to help develop the strategies and/or products able to improve the situation of Animal Production in Europe.

Our contribution as a research lab is mainly related to clarify the mechanism of action of additives potentially effective in poultry and swine production. This will be achieved by studying the effects on intestinal microbiota equilibrium, performance parameters and immune system status.

The group's research activity is devoted to studies on animal (single-stomached), and human nutrition. Work is firstly focused on nutrient and energy utilization, and to identify specific events and compounds involved in the metabolic response to food intake. In farm animal studies, attention is chiefly paid to pigs and poultry. The main task is the assessment of their balanced nutrition within sustainable, environmentally friendly animal production systems. The study of the mechanisms of action and biological effects in productive (swine, poultry) and laboratory (rat) animals of bioactive substances is one of the main research topics of this group. Some specific problems addressed are: 1) to determine the nutritional value of chemically well defined, purified fractions (proteins, carbohydrates, lipids) from feed- or foodstuffs; 2) the local (intestine) and/or systemic mechanisms of action of purified compounds such as protease inhibitors, prebiotics, etc.; 3) the potential usefulness of dietary compounds as functional feed or food ingredients on gut microbiota, protein and lipid metabolism, cell growth, etc. together with the mechanisms involved.

Group's recently granted projects on topics closely related to that of the present proposal:

- 2009-2013. Biological effects of pea (*Pisum sativum*) proteins. (PET2008- 0311).
- 2011-2012. Production and characterization of new oligosaccharides from milk whey permeates (POII10-0178-4685).
- 2010-2012. Evaluation of feed additives with potential microbiota modulation effects in growing broiler chickens. (AGL 2009-11925).
- 2013-2015. Evaluación de aditivos antimicrobianos y estudio de la correlación entre la composición de la microbiota digestiva y parámetros fisiológicos y productivos en broilers (AGL 2012-32894).

Previous FP experience

Participation in:

1.- Proposal number : 315063

Call : FP7-SME-2012

Natural ingredients and probiotics in animal nutrition for the reduction of Salmonella incidence in the poultry business (NATURSALM).

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

2.- 311949: Innovative tools for a holistic value-chain approach in the European pork and poultry industry, leading to profitability, animal welfare, meat quality and care for the environment (MOSAIC).

KBBE.2012.1.3-03: Monogastrics Feed Efficiency - Efficiency of livestock digestive systems and reduction of the ecological footprint through a combination of systems biology, 'omics' and nutrition.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



*TECHNOLOGIES FOR INDUSTRIAL BIOPRODUCTS
DEVELOPMENT - UNIVERSITY OF SANTIAGO DE
COMPOSTELA*

R&D Institution

*PROFILE from Spain
(14ES0006)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

TIBD from University of Santiago de Compostela was created by joining two groups, the first one with a wide experience regarding the research of the extraction of flavonoids and other polyphenols from plants and bioactive components from seaweeds, the second one with a wide experience in drying processes, food rheology and research on gluten-free dough. The main research topics are the development of ultrasound-assisted processes for seaweed extraction of bioactive components, preparation characterisation of gluten-free dough, convective drying and the characterization of starch-based functional foods including extracts from plants and seaweeds.

Previous projects that define our expertise are the following :

"Technological flair for the industrial processing of gluten-free flour doughs. Additives and Thermomechanical and Rheological characterization." CTQ 2010-15309/PPQ. Ramón Felipe Moreira Martinez. National Grant. 01/2011-12/2013.

"Obtaining of algae liquid extracts from Galician coast resources as an added value product to be used in agriculture and cosmetics". PGIDIT10MMA007CT. Jorge Sineiro Torres. Regional Grant. 08/2010-09/2013.

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"Evolution of the physical-chemical properties of systems with high content of starch obtained in osmotic-convective drying processes and rheological characterization of the mixture with water."
National Grant. Ramón Felipe Moreira Martinez. CTQ 2007-62009/PPQ. 08/2007-08/2010

"Obtaining of taylor-made proanthocyanidinic fractions for grape marc and other subproducts."
María José Núñez García. National Grant. AGL-2006-1210-C03-03. 10/2006-09/2009.

Expertise offered (related to the topic)

Our experience is oriented to obtaining functional starch-derived foods by extraction of bioactive compounds from seaweeds to be applied gluten-free fortified dough, which can be studied at all stages of processing, from flour preparation to cooking.

Our facilities include pilot-plant ultrasound processing unit DrHielsher, two convective pilot-plant dryers, rheometer for dynamic rheology Anton Paar, rotary and capillar viscometers, micronizer Retsch, surface tension measurement Lauda, Mixolab unit for preparing and charactrisation of dough, climatic chamber Angelonni 250, two gel filtration preparative columns (7x100 cm), UV detector for chromatography columns, chromatography A/D converter and software eDAQ, fractions collector Bio-Rad, Freeze Dryer FTS Kinetics EZDry, ultrafreezer New Brunswick, rotary incubator New Brunswick Innova40, HPLC Jasco, spectrophotometer Jasco UV530.

Previous FP experience

Jorge Sineiro participated in OLNOCO Project from IV Framework Programme, which was developed by Universidad de Santiago de Compostela (coordinator, Spain), Universidad Catolica de Valparaiso, Intituto de Biotecnología (UNAM , Mexico), Universidade do Porto (Portugal) and Universidad de Vigo (Spain).

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0007)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production , agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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City: Tjele

Country: Denmark

Contact person: Anders Skeem

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0008)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)
- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)

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- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

We have worked really hard to achieve a more sustainable agriculture (with the combination of the modernization of farms with the improve of the animal welfare), and to develop the extensive livestock systems or to increase the diversity and the friendly environmental practices. As an example, the success with the EU grants for to promote the friendly environmental practices, on promoting the organic farming and our collaboration in the protection and improvement of indigenous livestock breeds (95% of our farmers have indigenous beef breeds).

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



LANDALUZ, ASOCIACIÓN EMPRESARIAL ALIMENTOS DE ANDALUCÍA

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0009)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

LANDALUZ is an association that gets together around one hundred and ten food producer companies from Andalusia, south of Spain, and gathers close to 70% of the Andalusian business sector. Our aim is to promote Andalusian high quality food products all over the world.

Expertise offered (related to the topic)

LANDALUZ, Asociación Empresarial Alimentos de Andalucía, was born in 1990 as the most important and relevant association in the agrifood sector in Andalusia. We have more that 20 years experience in the sector. We think we can contribute to the topic due to the years we have been working with companies with animal production and our knowledge about the sector.

Role in the project

Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



ACRUGA ASOCIACIÓN NACIONAL DE CRIADORES DE GANADO VACUNO SELECTO DE LA RAZA RUBIA GALLEGA

Other organization (consulting, associations,...)

*PROFILE from SPAIN
(14ES0010)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The "Asociación de Criadores de Ganado Vacuno Selecto de Raza Rubia Gallega" (ACRUGA), was founded in 1969 and is a non-profit entity registered in the Registry of the European Union of pure breeds, having as main objectives the defense, protection, selection, promotion and expansion of beef cattle Rubia Gallega breed in the EU and third countries.

Currently we are 2,500 families exploiting this kind of beef, with relatively few cattle (12 head in 2000), most of them with a medium size (28 heads in 2013), but in all cases with a similar management.

The Rubia Gallega farms are medium size and have a semi-extensive production system, with an upward trend to more extensive production but compatible with the environment. The perfect adaptation of the Rubia Gallega to the socioeconomic conditions of Galicia achieved the necessary balance between the economic and ecological framework and with the population (represented by families with a traditional production systems of this breed which are characterized by land use in a lasting way and the maintenance of a good relationship with crop production).

The objective of selecting the Rubia Gallega breed is to produce a raised calf by hand providing an attractive meat, nice pink color, juicy and tender, with a composition of muscle and balanced fat to provide a particularly delicious flavor, finding the love of something authentic, natural and healthy.

The most important lines of work of ACRUGA in recent years are related to the genetic evaluation of reproductive animals and estimation of genetic trend by forecasting, genotyping of breeding of stud

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book , research advocacy gene myostatin as an indicator of calving ease and in the study of the organoleptic characteristics of meat , growth control birth and weaning of all animals entered in the stud book, an activity which aims to add growth control of heifers until puberty and first birth, after the creation of a heifer breeding center in Lugo province.

All these lines have been developed in collaboration with the University of Zaragoza and the University of Santiago de Compostela.

Expertise offered (related to the topic)

ACRUGA has a lot of experience related to the studies about the general conformation of "Rubia Gallega". We seek to know more or less the degree of performance or effective utility that the animal can provide.

On previous studies developed by ACRUGA in the period of the last 20 years, we have detected greater tendency to animals raised, shorter length and lower thoracic perimeter. In parallel, the animals seem to have wider and narrower chest and hip circumference with lower leg.

Furthermore, our studies shown differences between the different production areas (it is very interesting the areas of mountain with a favorable structure to pasture are accompanied by good conformation of the meat).

In addition, we have experience in modeling studies in other countries as Brazil and using different animals as the crossbred Nelore + Rubia Gallega;

Finally, in order to show our extended experience in that field, it must to know that we intend to introduce in our breeding center 200 animals per year, from all areas, and we are studing the evolution of growth and nutritional plans better suited to the development of the animal, thereby seeking the ideal type that best suits extensive production, reinforcing the idea "system- size ", since parents with whom they mate, must have diversity of biotypes in order to satisfy the different needs of the market.

In our research projects, we collaborate with the University of Zaragoza in special, about the process of the genetic evaluation of these animals.

Role in the project

Research; Training; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



RESEARCH GROUP: "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPMENT" (AGR134)

R&D Institution

*PROFILE from Spain
(14ES0336)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.

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- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

"Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación" (RZ00-00-017).

"Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción" (RZ04-00-013).

"Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible" (RZ-02-007)

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:" (RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y ecotipos" (RZ2004-00010-00-00).

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos de ovino lechero" (RZ2008-00021-00-00)

Also, we have taken part in several cooperation projects (PCI- AECID) in North Morocco about DAnGR Conservation and Rural Developement:

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The research group has collaborated in the characterization of races of ruminants of Latin America (Araucanian sheep from Chile, Creole goat from Puebla(México), Casanare Creole cattle from Colombia, etc)

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



RESEARCH GROUP: "FÍSICA DEL PLASMA: DIAGNOSIS, MODELO Y APLICACIONES" (FQM-136) UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES0339)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group has a long history of the study of the Plasma in its different aspects, from theoretical point of view as experimental. In the last years, we are working in the industrial application of this plasma, especially in the destruction of industrial waste. Result of this work is the development of different spanish patent to destruction of Volate Organics Compound and the design of a Chamber specially useful for waste destruction techniques. Also, we have stated to work in the application of plasma for the agriculture and livestock industries by development of technologies for remediation of pollutants delivered into the environment . Plasma treatment of samples from different scenarios (farms, industries...) enables us to know the capability of non thermal plasmas to destroy gases derived from these activities (greenhouse gases, ammoniac...).

This research was developed in the frame and support of the following National Projects:

1. FIS2009-11191. "Reactor de plasma de gran volumen basado en descargas de onda de superficie producidas en estructura coaxial". 72.600,00 € Antonio Gamero Rojas, 1-C
2. FIS2005-02840. "Descargas de microondas para aplicaciones en lámparas de iluminación". 104.720,00 €, Antonio Gamero Rojas, 2-C

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3. CTQ2005-04974. "Desarrollo y optimización de métodos basados en plasmas de microondas para la destrucción y eliminación de compuestos bext y derivados". 77.350,00 €, Antonio Rodero Serrano, 1-C

4. PPQ2001-2537. "Destrucción y detección de residuos peligrosos mediante procesado con plasmas de alta frecuencia (radiofrecuencia y microondas)", 150.403,28 €, M. Carmen Quintero Ortega, 1-C

Expertise offered (related to the topic)

Our research group has extensive experience in different topics related with the plasma with helping to a successful development of Project inside the frame of this Programme:

- Spectroscopic diagnosis techniques
- Electromagnetic diagnosis techniques
- Collisional Radiative Models of Plasma.
- Kinetic Models of Plasma
- Gas chromatography
- Mass Chromatography
- Laser Induced Breakdown Spectroscopy
- Waste destruction by plasma
- Lighting by Plasma.

Previous FP experience

We have been involved in different national and international Project related to the Plasma studies and to the use of this device to industrial application.

Our group belongs to the research teams of the Agrifood Campus of International Excellence CEIA3, leds by the University of Cordoba.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0343)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD counts with specialized infrastructure (laboratories, pilot plants for meat and dairy products, experimental kitchen, sensory laboratory) to offer a complete service in assessing the quality and safety of different products: physicochemical, sensorial and

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

microbiological characterization, new product development, shelf life studies, microbial challenge test, food toxins and allergen detection, HACCP assistance.

IDEALFOOD has adopted Quality Management Systems in its general activities to ensure an efficient and high quality services.

IDEALFOOD has been supporting companies in the 6th and 7th Framework Program (BRIDGE and BIOFOS, respectively projects). Within the first project, it was possible to study the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. IDEALFOOD has also been involved in other calls as IBEROEKA and EUREKA, the last one in collaboration with companies and RTD in Norway, and Europe.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production



FUNDACION CENTRO TECNOLÓGICO ANDALUZ DEL SECTOR CÁRNICO (TEICA)

Technological Centre

*PROFILE from Spain
(14ES0360)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Teica has become innovation service meat companies, agribusiness and auxiliary, expanding its business base. Teica activity, which has been growing exponentially, it's focused on three priority areas: R&D, technical assistance and training, it is framed within the strategic lines are: direct service to companies, testing demanded by the industry, engineering support and process optimization, technology transfer, documentary support and training of all levels (basic, intermediate, technicians and managers). Teica has advised the meat sector companies in the deployment of processes and actions which represent and environmental improvement. This is the case of the implantation of the ISO 14001 Norm in companies, advising to enterprises in the accomplishment of environmental improvement actions within the program ECOINNOCAMARAS, and studying the viability of a biogas plant in the region using as substrates the meat industry residues. On the other hand, within A2TRANSFER (POPTec program, FEDER funds) and TRATECAR (REINDUS program) projects, Teica has made technology transfer activities based on improving production processes that make companies more environmentally sustainable. During the course of A2TRANSFER, TEICA has made a technological diagnosis of the meat sector along the entire product value chain ; detecting various technological deficiencies and subsequently performing technology transfer activities to overcome them. In the project RETCETEC (POCTEFEX program, FEDER funds) development , TEICA has developed five prototypes of 5th range healthy halal dishes. The same way, Teica technicians have participated as speakers at various seminars for environmental improvement. Teica has a laboratory which performs all types of analytical to the meat sector

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

companies, including sewage, and a pilot plant for the development of new processes. TEICA collaborate with diverse ecological cattle and breeders. TEICA has carried out works for the enhancement of ecological lamb sheep breed Lojena, in collaboration with the association ACROL.

Expertise offered (related to the topic)

Teica has its own laboratory, which are made shelf life studies, nutritional studies, lipid profile, determination of pathogens, sensorial characterization, sensorial differentiation, meat quality and textures studies and environmental quality analysis. Technical staff of the entity performing work of technical advice for cattle and breeders focused on improve processes, genetic improvement, improved animal welfare, extensive livestock differentiation. On the other hand the foundation carries out technology transfer, training and organizes forums for stakeholders

Previous FP experience

TEICA has participated as principal beneficiary or as a partner in various calls of 7FP, the projects submitted were EVIPER, MICROGEST and NEWGOATPRO. TEICA has participated as principal beneficiary or as a partner in various calls of LIFE program, Modelling Biocontrol of *Listeria monocytogenes* in the Meat Industry, DEHESA VALOR and REWATER. Teica has carried out several projects financed by FEADER and FEDER funds. Programs POPTEC, POCTEFEX and GDR-FEADER. TEICA has worked on a project supported by FEADER funds, which has assessed the viability of Iberian pig grazing in the chestnut. On the other hand, in the LIFE 20012 call, TEICA request funding to carry out the project DEHESA VALOR, Project which aims to promote the sustainable use of the Dehesa, through differentiation of products from the same. Teica throughout the project A2TRANSFER, cooperates with cattlemen and breeders of Spanish and Portuguese autochthonous breeds animals.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

City: Sevilla

Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production. A [2014] Genetics and nutrition and alternative feed sources for terrestrial livestock production. B [2014] Tackling losses from terrestrial animal diseases



COVAP

Large company

*PROFILE from Spain
(14ES0365)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production. A [2014] Genetics and nutrition and alternative feed sources for terrestrial livestock production. B [2014] Tackling losses from terrestrial animal diseases

ORGANIZATION EXPERTISE

ENTITY PROFILE

COVAP is the largest agroindustry cooperative in Andalusia and is one of the most important in Spain, founded in 1959. The business scope is mainly focused on dairy products, animal feed, and meat products: 1) milk, milk shakes, enriched milks, 2) sheep, cow and goat cheese, 3) Iberian Ham and sausages, and 4) Iberian pig, beef and lamb meats. COVAP has an integrated production system based on an eco-sustainable model.

Its pastureland use rotational farming methods, meaning that the land is used to grow cereals for a period, and then used for livestock grazing. This kind of relationship between crop and animal farming is only possible due to a balance in the use of natural resources.

COVAP integrated production chain involves livestock, feeding, industrialization, commercialization and consumer (markets). The main advantage using this model is to have the control over the different steps till reach the end product and implement solutions from farm to fork. Each action at different levels will affect the rest in the chain, following up the quality and traceability of each end product. Moreover, COVAP has set up its own technical support service to get closer to members and to provide them with everything they need to improve their production conditions. A skilled team of

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 Business Support on Your Doorstep	 AGROFOOD	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

professionals provides a highly personalised service to members by carrying out a lot of field work. There are now four main support areas: 1) Rural Engineering and the Environment, 2) Hygiene and Health, 3) Reproduction, and 4) Comprehensive Advisory Services to help members to take advantage with the support of Public Administration.

Expertise offered (related to the topic)

COVAP has the following facilities and specialized personnel which could be applied in technological development and demonstration activities: Dairy factory, Composite Feed Factory, Unifeed Factory, Iberian Factory for cured products and Slaughterhouse. COVAP, has in addition dairy (sheep, goat and cow) and meat farms (beef, sheep, and a regional race of pig called Iberian pig) and feeding centers for calves and sheeps. Food quality assessment: since COVAP can evaluate any change in diets, from its farms and feeding centers to end products. COVAP, also could develop new animal diets including by-products and evaluate its impact in productive parameters, food safety and end-product quality.

Previous FP experience

COVAP has participated in the following International Research Projects: BRIDGE Project (6th FP) where the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. Currently, COVAP is involved in a Research Project from 7th FP Called BIOFOS which attempt to develop a high-added value multi-analyte biosensor for quality control in food industry. Under the figure of EUREKA, COVAP is running the Project INFORMED, which addresses online monitoring & control of production in the meat processing industry. Moreover, COVAP has huge experience in developing research projects financed by its own resources and with National funding, in areas such as Food quality, Food safety, Animal Health Status and Production Improvement, or New Products/Processes Development.

Role in the project

Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

City: Sevilla

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production. A. [2014] Genetics and nutrition and alternative feed sources for terrestrial livestock production

 **CHAMBER OF AGRICULTURE OF NORTH-RHINE WESTPHALIA / LANDWIRTSCHAFTSKAMMER NRW**

Other organization(consulting,association,...)

*PROFILE from Germany
(14DE0324)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production. A. [2014] Genetics and nutrition and alternative feed sources for terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Chamber of Agriculture is a farmer self-management organization (48.000 members, mostly SMEs from agriculture, horticulture e.g.). Main advisory issues are business management; animal and plant production, protection and welfare; energy- and ventilation technology; feeding; sustainable / ecological production, professional qualification of the farmers; rural development etc. The advisory services are supported by a research establishment (about 20 projects) with the focus on applied, precompetitive research. In most cases we are collaborating with universities and other partners. We have got excellent possibilities to research under practical conditions in four centers of research (cattle, pigs, greenhouse, agricultural and horticultural outdoor cultivation). Excellent contacts to farmers offer different ways of dissemination results of research.

Relevant R&D (research and development) activities:

- ☐ Animal health and welfare, protection of animals, prevention of animal disease, decrease the use of (broad spectrum) antibiotics
- ☐ Climate testing cow stable: measurement of concentration of climate toxic gases, experimental research on sustainable albuminous feedstuff-alternatives to soy

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- ☐ Product identification and traceability in horticulture, in animal / crop supply chain respectively value chain
- ☐ grassland conservation / protection and climate protection
- ☐ organic farming
- ☐ foodstuff / plant nutrient / plant protective management in horticulture, decrease utilization of this agents
- ☐ conflicts in land use, landmanagement

Expertise offered (related to the topic)

Research, demonstration in the following areas:

1. Decreasing environmental footprint by optimizing grazing systems
2. Potential of Alfalfa- and grass-clover-mixtures as protein source
3. Feed efficiency and possible impacts on animal health of varying N-sources
4. Modifications of feeding strategies of dairy cattle and their relationships to reduced metabolic diseases and improved animal welfare
5. Usage of different feed stuffs and feed additives in dairy production to reduce emissions of climate-wrecking gases
6. Modifications in housing systems for dairy cattle in conjunction with a possible reduction of emissions of climate-wrecking gases

Previous FP experience

Our experience in the last three decades almost is based on national research programmes (Federal State of Germany; German State of North-Rhine Westphalia) and in European Programmes such as European Regional Development Fund Objective 2 and 3 (INTERREG), Intelligent Energy Europe e.g., too. We mostly developed and realized projects as partner in consortiums as well as LEAD-partner in several projects.

Role in the project

Research; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-1-2014/2015: Sustainable terrestrial livestock production. B [2014] Tackling losses from terrestrial animal diseases



PATHOLOGICAL ANIMAL ANATOMY

R&D Institution

*PROFILE from Spain
(14ES0364)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production. B [2014] Tackling losses from terrestrial animal diseases

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our main goal is to understand better the interaction between the immune system of swine and ruminants and their specific pathogens, in particular pathogens associated with high production losses as PRRS, ASF, CSF and BVD. In this sense, we are conducted several studies related with the pathogenesis of these diseases as the follows:

"Role of regulatory T lymphocytes (Treg) in Porcine Reproductive and Respiratory Syndrome: correlation with the expression of immunomodulatory cytokines" (AGL 2009-12438/GAN).

"Role of the monocyte-macrophage in the pathogenesis of Porcine Reproductive and Respiratory Syndrome and other porcine viral respiratory diseases" (AGL 2006-04146/GAN).

"Evaluating and Controlling the risk of African Swine Fever in the EU (KBBE 211691)".

"Cellular immune response in Bovine Viral Diarrhoea: implications of cells and cytokines" (AGL 2003-252)

"Cellular and humoral immune response in Classical Swine Fever: apoptosis phenomena and regeneration of lymphoid structures" (PB98-1033)

"Study of cytokines (TNF and IL-1) as responsible of vascular changes and apoptosis phenomena in African Swine Fever" (PB95-0558)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

"Morphopathology of African Swine Fever" (PB88-0281)

Expertise offered (related to the topic)

The studies of the pathogenesis of the viral diseases and the interaction between the immune system and the pathogens has been carried out with the use of

- Histopathological evaluation of target organs
- Immunohistochemical studies to determine the expression of viral proteins, cytokines (IL-1, TNF-alpha, IL-6, IL-10, IL-12, ...) and acute phase proteins (Haptoglobin, C-reactive protein, ...).
- Identification of different cells populations (macrophages, dendritic cells, lymphocytes subpopulations) by the use of immunohistochemical studies and flow cytometry
- Study of the mechanisms involved in the apoptosis by immunohistochemical techniques
- Electronic microscopic studies

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS1-2014/2015: Sustainable terrestrial livestock production



*FARMERS AND LIVESTOCKS ASSOCIATION OF CADIZ
(ASAJA CADIZ)*

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0396)*

TOPIC OF INTEREST

TOPIC

SFS-1-2014/2015: Sustainable terrestrial livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

ASAJA Cadiz is an agricultural organizations created for the defense of the interests of farmers and searching for greater benefit of livestock and farmers, but always respect the environmet. ASAJA Cadiz has a extensive experieencie in R&D, but at national projects. Asaja is the main farmers organization in Spain.

Expertise offered (related to the topic)

ASAJA Cadiz, as a main agricultural organizations, has experience in agricultural and livestock projects. ASAJA Cadiz has ejecuted the following projects in recent years: knowledge transfer to the livestock sector of beef cattle, livestock reduction and its effects on natural regeneration of dehesas, grazing livestock management in rotary, etc.

A project to develop at this topic has the following objetives: increasing the meat yield of extensive livestock and respectful manner consistent with the ecosystem of Mediterranean forest and pasture. It seeks to increase the yield of the carcass, either through genetic improvement, new complementary food supplements in animal feed, health improvement, better use of local resources (pasture, fodder crops, etc), factors that ultimatey result in higher meat yield preserving the balance with the ecosystem where it develops livestock.

B. [2014] Tackling losses from terrestrial animal diseases.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

A project to develop at this topic has the following objectives: a healthier livestock. Animals disease resistant. The European Union, in the framework of the Common Agricultural Policy provides an essential mechanism to achieve the conservation and promotion of the cabin of the member states programs for the eradication of animal diseases. Animal diseases have become a problem of many cost for the extensive farming, as it is very difficult to regroup cattle that are free in the bush for submission to multiple vaccinations and blood draws. This is what happens to meet livestock programs of brucellosis, etc. This could be solved if we had vaccines with longer lasting effects or animals genetically more resistant to these diseases. The problem of bluetongue disease, whose origin is in Morocco, is causing many economic costs for the EU and Spain. It is essential to involve the pharmaceutical industry and Universities at this project.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0011)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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Partnership Profile

SFS-2-2014/2015: Sustainable crop production



*FOUNDATION OF AUXILIARY INDUSTRY OF
AGRICULTURE, TECNOVA FOUNDATION*

Technological Centre

*PROFILE from Spain
(14ES0282)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

Experimental field

Tecnova count on an assay zone of 12 hectares, divided in different parcels and technology modules in which we purport to represent the technology diversity of the intensive agriculture under plastic

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

(different types of greenhouses structures, irrigation systems, different substrates of culture, species and varieties of plants), as well as the application and research of the new sector technologies all over the world. We are working to improve the management of external nutrient inputs and water, and optimise their use efficiency at farm level to improve both yield and quality.

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-2-2014/2015: Sustainable crop production



DERETIL VITATECH S.L.U.

Technological Centre

*PROFILE from Spain
(14ES0012)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Deretil Vitatech is the Deretil's group technological company. Deretil group is worldwide lider company in the development and production os semisynthetic antibiotic side chains (based in non natural chiral aminoacids like D-parahydroxyphenilglycine, D-Phenylglycine, D-Dihydrophenylglycine, D-Valine, etc).

From 2009 Deretil group started a growth strategy based in new bussiness in the fields of agronutrients (special fertilizers like micronutrients chelates, aminoacids, biestimulants, etc), and in 2013 started the development of active ingredients to be used in cosmetics, food and feed (natural antioxidants and other interesting molecules).

Relevant R&D projects are:

- Natural products extraction and purification (membranes, chromatography, etc). Examples like polyphenols, steviosides, tannins, anthocyanins, etc.
- Biomolecules obtained by fermentation to be applied in Agriculture (biofertilizars and/or biopesticides), nutrition and/or cosmetics.

Expertise offered (related to the topic)

We can be considered as a partner in the following activities:

- Special fertilizers design and formulation. Liquid and dried form.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Spray drying granulation.
- Process scale-up from lab to plant.
- Growth stimulants, elicitors, phytostrongthener with high antioxidant polyphenolic compounds, etc, based in natural extracts and microorganisms.
- Pilot and production plant suitable for demonstration stages in projects, including fermentation, microfiltration, chromatographic purification...
- Biotechnology, synthesis and analytical laboratories.

Previous FP experience

CADOX Project: "A coupled advanced oxidation-biological process for recycling of industrial waste waters containing persistent organic contaminants"

Project reference: EVK1-CT-2002-00122

Funded under: FP5-EESD

Country: Spain

Info: <http://cordis.europa.eu/projects/EVK1-CT-2002-00122>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0013)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and
- Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

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R&D Projects:

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,

<http://www.juntadeandalucia.es/medioambiente/site/rediam>

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic SFS 2 - 2014/2015: Sustainable crop production based on research and innovation for a better soil management and optimisation for a long-term sustainability of crop productions. We think that the initiatives promoted are really challenging for an organization like Geographica with experience in remote sensing, geospatial technologies that integrates, analyze, and display data and spatial information, reporting, creation of indicators in real time, applications that performs hypothetical scenarios, projections and comparisons of them, and perform evolutive studies. All this technologies could be implemented in projects under this topic.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project ´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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E-mail: jaime.duran@juntadeandalucia.es

Partnership Profile

SFS-2-2014: Sustainable crop production. A. [2014] External nutrient inputs



ISOIN

SME

*PROFILE from Spain
(14ES0014)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014: Sustainable crop production. A. [2014] External nutrient inputs

ORGANIZATION EXPERTISE

ENTITY PROFILE

ISOIN (www.isoin.es) is a Spanish SME working in Information Technology field, with deep experienced and a high qualified labour in software development, ambient intelligence, mobile communications and system integration. ISOIN has been developing, for years, high quality products for its customers, doing consultancy services, analysing the ICT market, and providing training to public and private companies. ISOIN workforce is composed by a multidisciplinary team ranging from different areas of engineering (mechanical, telecommunications, computer science, economics and agricultural sciences) being spread out Spain, Italy and Colombia. At the same time, research and development have been one of ISOIN main aims in order to continue improving its solutions and services to its customers. Hence ISOIN has been participating in National and European R&D projects for more than ten years, starting back in FP5 at European level and never stopping since then. ISOIN has several on-going projects in different European calls (FP7, AAL, EUROSTARS), and national ones, developing innovative solutions for adding value to our products and services. Some of these projects and its key-words are:

- FORSAT - A satellite image processing platform for high resolution forest assessment.
- DIET4Elders - A system that collects data regarding the older adult's self-feeding activities and generate a response based on a prescribed diet.
- COIN - Collaboration and Interoperability services based on cloud computing and SaaS.

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- T&TNet - Travel & Transport solutions through emotional-social NETworking aimed at elderly.

Expertise offered (related to the topic)

The applications of ICT for this topic are quite board:

- Software engineering and software development of platforms, interfaces, DSS, etc.
- For the management of data we can provide Cloud Computing, Data Mining, image data storage platform Ontologies, etc
- We can develop platforms for Smart Environments (Wireless Sensor Networks, Z-wave, OSGi, Devices Profile for Web Services, etc)

ICTs can provide different options for "precision farming" that can be employed to optimize the management of external nutrient inputs and water, thanks to the use of GPS, GIS and smart sensors, in order to prevent the overuse or underuse of fertilizers. ISOIN can develop the software and platforms to control the sensors, collect and store the data, and also tool for model and simulate behaviours with these data, using simple and easy interfaces. Precision agriculture needs of Decision Support Systems (DSS) for optimization and management of inputs, and a platform for the integration of sensors (WSNs), other technologies like GPS and GIS, communications protocols and an easy-to-use interface for the end user.

Previous FP experience

ISOIN´s count on a long track of experience in coordinating and participating in European projects in many different R&D programmes, but specifically in Framework Programme ISOIN has been involved in:

FP5-OLIMP3D: 3D technologies applied to industrial design and modelling of industrial products for SMEs

FP6-CADPIPE: Cad Production Pipeline

FP6-ECOLEAD: European Collaborative networked Organizations LEADership initiative

FP7-COIN: Enterprise Collaboration & Interoperability

FP7-MyUI: Mainstreaming Accessibility through Synergistic User Modelling and Adaptability

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0015)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems



RESEARCH GROUP: "BASES BIOLÓGICAS PARA EL CONOCIMIENTO, CONSERVACIÓN Y USO SOSTENIBLE DE BIODIVERSIDAD" (RNM-322)

SME

*PROFILE from Spain
(14ES0016)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems

ORGANIZATION EXPERTISE

ENTITY PROFILE

Biological control of Lepidoptera and Coleoptera pests. Use of entomopathogens (virus, bacteria and fungi) for control of key pests on agricultural and forest ecosystems: cotton, maize, olive, holm oak, chestnut, etc. Relevant projects: 1) Parasitoid-pathogen compatibility for control of lepidopteran pests; 2) Biological effects of the toxins from *Bacillus thuringiensis* on important agricultural pests and their natural enemies; 3) Toxicity of *Bacillus thuringiensis* in *Helicoverpa armigera* and compatibility with the natural enemies of cotton; 4) Large-scale production of viral biopesticide in insect cell cultures to reduce wide-spectrum insecticide use; 5) Baculovirus strain selection, production and application of biological preparations for control of agricultural pests.

Expertise offered (related to the topic)

1) Isolation of entomopathogens strains in agricultural and forest ecosystems; 2) Insecticide evaluation of entomopathogens on Lepidoptera and Coleoptera insects by laboratory and field assays; 3) Optimization on production methods of entomopathogens; 4) Compatibility between entomopathogens and entomophagous species (parasitoids and predators)

Previous FP experience

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AIR, Third Framework Programme, AIR10386: LARGE-SCALE PRODUCTION OF VIRAL BIOPESTICIDES IN INSECT CELL CULTURES TO REDUCE WIDE-SPECTRUM INSECTICIDE USE

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

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City: Sevilla

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 <i>Business Support on Your Doorstep</i>	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



RESEARCH GROUP: "DINÁMICA FLUVIAL E HIDROLOGÍA" (TEP-248). UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES0268)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Cordoba, founded as such in 1972, has its roots in the Free University of the province of Cordoba in the late nineteenth century and has ancient studies such as Veterinary, unique in Andalusia. The dynamism of the UCO due to its youth and average dimensions - 21,000 students, 1,600 teachers and 700 employees - has helped to get to the twenty-first century as a high quality teaching and scientifically sound University. Since 2009, the University of Cordoba leads the Agrifood Campus of International Excellence (CeIA3), a project to modernize and internationalize the participating universities towards a sustainable production model based on knowledge.

Lecturers and researchers of the UCO, apart from lecturing among its more than 90 undergraduate and graduate degrees, lead about 200 research projects at international, national and regional levels of up to 28 millions of Euros. Similarly, there are 190 research groups whose average scientific output reached the 3,170 publications in the last three years.

The River Dynamics and Hydrology Group, works in the integrated management of watersheds and coastal areas and has certain experience in erosion studies. The Group has participated in 15 projects of public and private calls with a total of 74 publications in the last five years. A result of the researching activities is WiMMed, a free software distributed hydrological model for Mediterranean watersheds that includes the simulation of water flows and associated sediment and other substances fluxes. The Group collaborates with the Andalusian Water Agency in participation actions,

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training and transfer. Thus, the Group has been recently awarded with the Award for Knowledge Transfer of the UCO Social Council UCO in its third edition.

Expertise offered (related to the topic)

One of the main lines of research of the Group is the assessment of the hydrological response of a certain area in terms of water as well as erosion and associated substances to runoff and sediments. We have developed specific tools to evaluate the environmental pollution in surface and subsurface waters under different land-use management scenarios. The complete hydrological model (with the water module, erosion and non-point source pollution generation and transport) developed by the Group can be used as a DSS tool. Thus, different tailor-made CA strategies to reduce soil loss and improve the sustainability of the crop production systems can be evaluated. Plus, the amounts and dates of application of external products to the crops such as nutrients and fertilizers can be planned to reduce the negative impacts on the environment again by the use of such models

Previous FP experience

The Group has participated in two previous projects of the FP: 1) Integrated Management of Mediterranean Watersheds of the BVM INTERREG III-B MEDOCC call and 2) Novel Integrated water management system for southern European regions (NOVIWAM) of the FP7 Regions of knowledge call.

Role in the project

Research; Training;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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City: Sevilla

Country: Spain

Contact person: Leonor Camacho

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E-mail: leonor.camacho@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0017)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client´s requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicules

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- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

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- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - PLANT, FOOD & SUSTAINABILITY**

R&D Institution

*PROFILE from Denmark
(14DK0018)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Senior scientist's research areas:

Plant nutrition and irrigation of vegetable crops. Methods in plant nutrition to avoid deficiency or surplus fertilization. Investigations in how plant nutrition influences produce quality. Determine drought-sensitive growth stages and research in how drought stress influences biomass production and produce quality. Use of green manure crops and winter cover crops to catch unused plant nutrients and to fertilize a succeeding vegetable crop. Development of the organic growing methods for vegetable crops. Investigations in improved nutrient efficiency.

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-2-2014/2015: Sustainable crop production

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - PLANT, FOOD & SUSTAINABILITY**

R&D Institution

*PROFILE from Denmark
(14DK0019)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research areas: Studies the relationship between root growth and nitrogen uptake. Works in horticultural systems under organic or conventional management. Here winter catch crops (cover crops) and the design of crop rotations play a major role to decrease leaching of nitrate and thereby increase the nitrogen use efficiency of the system. Her research is focused on the relationship between root growth and N uptake in deep soil layers. Some crops and catch crops extend roots to 1-2.5 m depth below soil surface. These deep roots may take up nitrogen at depth and can be used to reduce the leaching of nitrate from the deep soil layers to the groundwater. The work includes subjects such as root and crop physiology in relation to nitrogen uptake. The approach is laboratory and field experiments including the use of stable isotope ¹⁵N techniques for the study of N cycling, and of minirhizotrons for measurements of plant root growth. The crops in study have been deep rooted crops like white, Chinese and curly cabbage, carrot, beetroot, squash, as well as shallow rooted crops like rucola, sweet corn, potato, celleriac and leek. The catch crops and green manures include deep rooted like fodder radish, winter rye and salad burnet as well as shallow rooted like ryegrass and birdsfoot trefoil.

In addition her studies the relationships between conditions during the growth phase and the quality of horticultural products; like harvest quality, sensoric properties and the content of substances of importance for human health. The focus is on the importance of the genetic material, the availability of soil nutrients and suboptimal growth conditions for the quality of vegetables, e.g. the content of

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

glucosinolates in cabbages, and the effect of UV-light exposure on the formation of vitamin D2 in mushrooms.

Expertise offered (related to the topic)

Nitrogen management in open-field vegetable production focussed on the importance of root depth, root nitrogen uptake, crop nitrogen demand and use of autumn catch crops, intercropping and green manures for improvement of nitrogen use efficiency of cropping systems.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

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FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping
(Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-2-2014/2015: Sustainable crop production

 **DEPARTMENT OF AGRICULTURAL AND FOREST SCIENCES**
R&D Institution
PROFILE from Italy
(14IT0020)

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Department of Agricultural and Forest Sciences has a complete profile in relation to all the research activity on agricultural basis. It has a long history in terms of teaching and researching in Agricultural Sciences. The Reserch Unit on Plant Biodiversity (RUPB) at the Department of Agricultural and Forest Science of the University of Palermo is focused on the study of plant biodiversity in Mediterranean agroecosystems, on its characterization and in situ/ex situ conservation, in vivo as well as in vitro. The RUPB in also dedicated to the development of best management practices to be adopted for a functional biodiversity use in order to value agro-biodiversity and to enhance farm productivity.

The RUPB has been and still now is involved in several research project related to the aspects derived from biodiversity traits.

By now, the RUPB leader is coordinating a Project funded by UE through the Regional Government aiming to build a Center of Conservationf for Regional Biodiversity in connection with the European ones.

Expertise offered (related to the topic)

The RUPB offers wide skills in biodiversity estimation, plant taxonomy, plant characterization, local varieties characterization, rural areas management, best practices configuration, related statistical analysis. Moreover, an experience in national and international projects is available including UE projects. The RUPB has also participated at the Governmental Work for licencing the National

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Guidelines for in situ/ex situ conservation and characterization of vegetative, animal and microbial biodiversity (2012).

Previous FP experience

PSR 2007/2013 - Action 214/2 - A: Conservation of Biodiversity (Contract number: 94750773338)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN (ASG member) / EEN BRIDGECONOMIES

Organisation name: Unioncamere Piemonte (ASG member)/ Consorzio Arca Palermo

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Country: Italy

Contact person: Daniela Vismara (ASG member) / Anna Sangiorgi

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Partnership Profile

SFS-2-2014/2015: Sustainable crop production



RESEARCH GROUP: "BIOLOGY AND CONTROL OF PLANT DISEASES"

R&D Institution

*PROFILE from SPAIN
(14ES0021)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Different research projects are being conducted by our group (BIOLOGY AND CONTROL OF PLANT DISEASES), with aims in the etiology, epidemiology and control of diseases of relevant subtropical and Mediterranean crops, as well as in the characterization of the biology, pathogenesis, virulence and ecology of bacteria and fungi that cause them. The plant diseases in which we currently work are: (1) apical necrosis of mango by *Pseudomonas syringae*, (2) olive knot by *Pseudomonas savastanoi*, as models of bacterial diseases, considering different aspects of control, virulence factors, toxins, plasmids, host specificity and pathogenesis, (3) mango malformation by *Fusarium* spp. and, (4) avocado root rot by *Rosellinia necatrix*, and (5) cucurbit powdery mildew by *Podosphaera fusca*, as fungal disease models, considering different aspects about etiology, populations diversity, fungicide resistance, biological control and multitrophic interactions. These objectives are being addressed by different methodological approaches ranging from conventional methods in Plant Pathology to genomic approaches, as genome and plasmid sequencing, transcriptome analysis or functional genomics. Projects list:

- Genomic approaches for the rational control of cucurbit powdery mildew (*Podosphaera fusca*)
- Emerging diseases of mango crops in Andalusia. From basic research to technology transfer
- Mango malformation disease and its causal agent *Fusarium* spp.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Genomic strategies for biological control of fungal diseases affecting relevant crops in Andalusia (Spain)
- Functional analysis of virulence factors and host specificity determinants in *P. savastanoi*
- Functional Genomics and Proteomics of Bacterial MDR Transporters During Plant Infection
- Understanding biological control of *Rosellinia necatrix*: genomic strategies applied to the study of multitrophic interactions in the avocado rhizosphere

Expertise offered (related to the topic)

- 1) Etiology, epidemiology and control of diseases of relevant subtropical (avocado and mango) and Mediterranean (olive and cucurbits) crops
- 2) Characterization of the biology, pathogenesis, virulence and ecology of bacterial and fungal phytopathogens
- 3) Biological control of soil and phyllosphere fungal pathogens
- 4) Population diversity studies (phyllosphere, rhizosphere and soil)
- 5) Fungicide resistance in fungal plant pathogens

Previous FP experience

- 1) A member of the group participated as postdoctoral researcher in project BIO 2-CT92-0084 (Biotechnology, FP III)
- 2) A postdoctoral member of the group is currently associated to the U-mobility program of the EU-University of Malaga (Spain), co-financed by the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme, G.A. no. 246550

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



RESEARCH GROUP: "ION AND WATER HOMEOSTASIS IN PLANTS" (BIO-027)

R&D Institution

*PROFILE from Spain
(14ES0022)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

GENERAL ACTIVITY

Dr. Colmenero's group develops activities ranging from basic to applied research aimed at promoting new knowledge as well as providing new developments and technological services to public and private companies. Most outstanding scientific activities focus on: 1) the response and resistance mechanisms of plants to cope environmental stress; 2) Use of rootstocks as a mechanism to improve agronomic performance of citrus and olive cultivation; 3) Chloride/Nitrate homeostasis and regulation of plant water balance; 4) Chloride/Nitrate nutrition and fertilization management to reduce external nitrate input and to increase water use efficiency and drought tolerance. Basic research topics include: molecular response to water deficit; functional characterization of genes involved in Chloride/nitrate transport; role of Chloride homeostasis in water balance and drought tolerance; Ploidy level and stress tolerance; citrus functional and structural genomics. RELEVANT R&D PROJECTS: 1) Water deficit tolerance based on the regulation of chloride homeostasis and ploidy level; 2) New varieties for implementing the use of rootstocks aimed to improve intensive olive crop performance; 3) Sequencing, Genotyping and development of genomic tools for Citrus plant breeding (CITRUSEQ). IMPACT: Improved tolerance to water deficit; improved management of external nitrate input; higher NUE (nitrogen use efficiency); better water management; new rootstock varieties for intensive olive cultivation, which are more resilient to abiotic stresses and resistant to pathogens (Verticillium), while providing better water use efficiency and reduced vigour.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

Plant Molecular Biology, plant genomics; plant physiology; stress biology; water parameters, water use efficiency; turgor; photosynthesis; Ion transport, chloride transport; ion and nutrient content; functional characterization of plant genes; mutant lines, genotyping, phenotyping; tissue culture; woody plant micropropagation and genetic transformation

Previous FP experience

Participant in the FP6 Project "Citrus rootstock breeding for efficient water and nutrient use" (FP6-2003-INCO-MPC-015453)

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-2-2014: Sustainable crop production. A. [2014] External nutrient inputs

 **UNIVERSITY OF APPLIED SCIENCES DUESSELDORF, FMDAUTO**

R&D Institution

*PROFILE from Germany
(14DE0023)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014: Sustainable crop production. A. [2014] External nutrient inputs

ORGANIZATION EXPERTISE

ENTITY PROFILE

At the Düsseldorf University of Applied Sciences a group of professors of the Departments of Mechanical & Process Engineering and Electrical Engineering founded an interdisciplinary institute for product and production related R&D projects, called FMDauto. The available laboratory infrastructure of the whole university, equipped with modern technology, as well as the usage of state-of the-art simulation and experimental techniques, create ideal conditions for successful research. Most of the R&D-projects take place in partnership with industry and/or other research institutes.

In 2011, research and development projects with a value of around 500,000€ were performed by FMDauto. Currently 7 professors, 19 research assistants and several student assistants are working at the institute. The main fields of activities are: Simulation Technology, Experimental Technology and Manufacturing Engineering. Since many years, the institute is working on the development, simulation and optimization of agricultural processes. During a current project e. g., a self-propelled forage harvester is simulated (CFD, MBS) and optimized. One of the main research topics is the coupling of different simulation tools, e. g. Computational Fluid Dynamics (CFD) and Multi Body Simulation (MBS), to describe cutting processes. The aim of most of the projects is to increase the efficiency of agricultural machinery towards a more sustainable agriculture.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The project idea is to design methods for measuring the properties of agricultural products as well as to integrate the measurement results within a data base.

INNOVATIVE ASPECTS: Simulations are often the basis for optimizations. Furthermore, they are able to accelerate development processes. To perform simulations of harvesting or food preparation processes as well as for designing engines, material data is needed. Standards for determining the material properties don't exist. The aim of the project is to determine the material properties of the most important agricultural products and integrate them into a data base. Furthermore, the founded measurement methods should be published and suggested to become a standard. Decreasing costs for the IT infrastructure and software enable the use of modern simulation tools in more and more companies. To perform simulations of agricultural processes, the relevant properties of the agricultural products have to be known. Until today, these measures have to be determined individual. Standards do not exist.

CURRENT STAGE OF DEVELOPMENT: Some properties of a few agricultural products have been measured, e. g. the forces needed to cut grain stalks as well as different food, like cheese, carrots and potatoes.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems

 **UNIVERSITY OF TURIN-DISAFI- TEAM POST-HARVEST TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT**

R&D Institution

*PROFILE from Italy
(14IT0026)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems

ORGANIZATION EXPERTISE

ENTITY PROFILE

The aim of the research team on "Post-harvest technology and supply chain management" is to improve the sustainability of the fruit and vegetable supply chain by optimizing their quality and shelf life mainly through the use of post harvest technology. The driver of all research's activity is the adoption of innovation in the management of fruit production and process that can be able to fulfill sustainability criteria. Smart integration of multidisciplinary aspect such as physiological, safety, and instrumental and sensory quality measurement concepts is essential to develop the most effective handling procedures and innovative technologies for maintaining quality and shelf stability of fruit products. Most of research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

Main topics

1. Physiology and post harvest quality
2. Storage management and packaging systems
3. Fresh-cut physiology and storage
4. Edible coating

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

5. Sustainability in the supply chain

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

Expertise offered (related to the topic)

The team performs research on sustainability in the fruit and vegetable supply chain, starting from the stage of production. LCA methodology, sustainability indicators multi-criteria analysis are applied to the most important sectors of the fruit production to integrate the traditional production processes with new technological innovations to answer the needs of reduction of the negative environmental impact of fruit and vegetables impact of production through less soil disturbance, better exploitation of soil biodiversity and more rational use of external inputs, water and natural resource base

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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City: Torino

Country: Italy

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-2-2014/2015: Sustainable crop production



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0027)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)
- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

We have worked hard to achieve a more sustainable agriculture, combining the modernization of farms with environmentally friendly practices. As an example, we advised farmers regarding chemical fertilizers and we managed to reduce its use in 30% and to improve the utilization of solid and liquid fertilizers produced directly on the farms. In addition, we are collaborating with the testing process of a new innovative compound of indigenous bacteria able to reduce harmful substances and improve the properties of slurry and manure.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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Postcode: 15590

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems



LANDALUZ, ASOCIACIÓN EMPRESARIAL ALIMENTOS DE ANDALUCÍA

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0028)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014: Sustainable crop production. B. [2015] Assessing soil-improving cropping systems

ORGANIZATION EXPERTISE

ENTITY PROFILE

LANDALUZ is an association that gets together around one hundred and ten food producer companies from Andalusia, south of Spain, and gathers close to 70% of the Andalusian business sector. Our aim is to promote Andalusian high quality food products all over the world.

Expertise offered (related to the topic)

LANDALUZ, Asociación Empresarial Alimentos de Andalucía, was born in 1990 as the most important and relevant association in the agrifood sector in Andalusia. We have more than 20 years experience in the sector. We think we can contribute to the topic due to the years we have been working with companies with crop production and our knowledge about the sector.

Role in the project

Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

SFS-2-2014/2015 : Sustainable crop production



UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

PROFILE from Spain
(14ES0300)

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015 : Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Santiago de Compostela (USC), founded in 1495, is one of the university institutions with a great tradition in Europe. The large number and excellence of the courses taught and the quality of the research undertaken particularly in the fields of life sciences and agrofood place the USC among the most prestigious universities in Spain and Europe. As a matter of fact a USC's main project called CAMPUS VIDA (Life Science Campus) has been qualified in 2009 as an International Campus of Excellence by the Spanish Ministries of Education and Science and Innovation.

Expertise offered (related to the topic)

Modelling of forest growth and productivity

Forest management

Silviculture

Forest biomass, energy plantations and carbon fixation

Soil and forest nutrition

Role in the project

Research; Training;

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

Contact person: Jana Vavrinová

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Partnership Profile

SFS-2-2014/2015 : Sustainable crop production



F · A · R · M S Y S T E M

SME

*PROFILE from Germany
(14DE0307)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015 : Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

F · A · R · Msystem offers a data management service, for example the data preparation and data analysis for the management system precision farming.

Based on the output of yield mapping, based on site-specific nutrient balances of arbitrarily shaped fertilizer application rates and soil nutrient contents are calculated. A monetary evaluation of these site-specific balances through F · A · R · Msystem using business data is also possible.

Furthermore for each subarea the profit contribution of the process can be calculated and we also create economic scenarios with varying costs and revenues. Thus, it is possible to consider future or expected market developments in planning application maps. As a full service we offer the creation of application maps.

Expertise offered (related to the topic)

GIS analysis, soil mapping strategy, generate small scale soil field maps, yield analysis; nutrient balance and economic yield analysis; location assessment; application maps and especially lime application mapping for site-specific liming

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015 : Sustainable crop production



IOTEC GMBH

SME

*PROFILE from Germany
(14DE0308)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015 : Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The company iotec GmbH is more than an engineering firm. It develops software and hardware in the field of agricultural and sensor technology. Furthermore, the guidance includes the selection of sensors to offer the company. Also, the distribution of in-house developments in the area of intelligent sensor technology represents a business unit of the company. Main focus is development and programming of plug-ins for ISOBUS terminals (Human Machine Interface), and communication between sensors and ISOBUS components. The development of electronics for the agricultural technology is another area of emphasis.

Expertise offered (related to the topic)

Software: VHDL, Matlab, LabView, AGF-Plugins, databases; Hardware: analogue electronics, development of new hardware, ISOBUS components, microcontroller, FPGA, CAD; Other: field testing, multi-reflective ultrasonic sensor system

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Germany

Contact person: Julia Kümper

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Partnership Profile

SFS-2-2014/2015 : Sustainable crop production. A. [2014] External nutrient inputs



AGROTECH

Technological Centre

*PROFILE from Denmark
(14DK0299)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015 : Sustainable crop production. A. [2014] External nutrient inputs

ORGANIZATION EXPERTISE

ENTITY PROFILE

AgroTech is a non-profit research and innovation institute working with technologies for the agricultural sector and food sector. We participate in research, development and demonstration projects supported by public funds. Moreover, we deliver independent test and documentation of new technologies and research-based consultancy on commercial basis related to the development of new technologies. In our work we pay special attention to small and medium-sized companies but we cooperate with companies of any size and any nationality. Environmental technologies for a cleaner agricultural production is one of five core fields of expertise in AgroTech.

Expertise offered (related to the topic)

AgroTech offers expert knowledge on various topics along the chain from biomass production, harvest, storage and use of different fractions of the biomass for food, feed, fertilizer, biomaterials and bioenergy. Activities concern experimental work, analysis of new and existing data, desk studies, elaboration of scenarios etc. as well as dissemination of knowledge to research communities, advisors, companies etc.

A specific interest is concerned with the use of perennial crops for the combined production of biomass and protection of the environment. Crop species such as perennial grass for forage production and short rotation forestry species such as willow and poplar for energy production may significantly reduce the leaching of nutrients to the aquatic environment compared to annual crops.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

In willow production, it may also be possible to irrigate/fertilize with waste water with a dual effect of improving the biomass yield and reducing the costs of waste water handling

Previous FP experience

AgroTech was coordinator in a FP6-project called "AGROBIOGAS - An integrated approach for biogas production with agricultural waste". It was a 3-year Collective Research project with 24 partners from 10 European countries. Total budget amounted to 2.8 million EURO. In addition to AGROBIOGAS, AgroTech has experience from participation in EU projects under the Intelligent Energy Europe-programme and the Interreg-programme.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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Country: Denmark

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



RESEARCH GROUP: "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPMENT" (AGR134)

R&D Institution

*PROFILE from Spain
(14ES0337)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.

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- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

“Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación” (RZ00-00-017).

“Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción” (RZ04-00-013).

“Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible” (RZ-02-007)

“Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:” (RZ01-010-C3-1)

“Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y ecotipos” (RZ2004-00010-00-00).

“Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas” (RZ2008-00021-00-00)

“Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico y de la calidad del producto”. (RZ2004-00010-00-00)

“Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos de ovino lechero” (RZ2008-00021-00-00)

Also, we have taken part in several cooperation projects (PCI- AECID) in North Morocco about DAnGR Conservation and Rural Developement:

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The research group has collaborated in the characterization of races of ruminants of Latin America (Araucanian sheep from Chile, Creole goat from Puebla(México), Casanare Creole cattle from Colombia, etc)

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production



*CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING
AND OLIVE OIL*

Technological Centre

*PROFILE from SPAIN
(14ES0373)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

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c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the process of sustainable olive growing. Specific expertise in the topic is based in the following background and technological tools:

a. Application of NIR on-line technology for the detection of markers of fruit maturity

b. Agronomic management techniques for olive orchards

c. Communication, dissemination and transfer of research results

d. Management and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

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FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain.
Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-2-2014/2015: Sustainable crop production. A. [2014] External nutrient inputs



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0344)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production. A. [2014] External nutrient inputs

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD is working on the application of innovative and effective strategies to improve the management of external nutrients through FP7 projects:

- RESFOOD. "Resource efficient and Safe Food Production and Processing" (www.resfood.eu)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- FERTIPLUS. "Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" (www.fertiplus.eu)

- SYNELEA "Sustainable innovations and exploitation in agricultural residues' clusters"

Taking into account the concept "multi-actor approach", IDEALFOOD has more than 500 SMEs associated and collaborates with different agrifood platforms such as FOOD for LIFE, EIP Agricultural Productivity and Sustainability, Spanish Technology Platform for Sustainable Agriculture, etc.

IDEALFOOD can carry out in-field demonstration activities of the proposed technologies to prove concept feasibility of the new strategies developed. Moreover we could focus on:

- Developing strategies for the reduction of contaminations with toxic compounds and heavy metals.
- Reducing of production costs and environmental impacts.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-2-2014/2015: Sustainable crop production



*FARMERS AND LIVESTOCKS ASSOCIATION OF CADIZ
(ASAJA CADIZ)*

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0397)*

TOPIC OF INTEREST

TOPIC

SFS-2-2014/2015: Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

ASAJA Cadiz is an agricultural organization created for the defense of the interests of farmers and searching for greater benefit of livestock and farmers, but always respecting the environment. Asaja Cadiz has a extensive experience in R&D, but at national projects. ASAJA is the main farmers organization in Spain.

Expertise offered (related to the topic)

ASAJA Cadiz, as a main agricultural organizations, has experience in agricultural and livestock projects. ASAJA Cadiz has executed the following projects in recent years:demonstration project new variety of horticultural, beet for bioetanol, etc.

A project to develop at this topic has the following objectives: early planting as a strategy to increase market competitiveness and improving the environment. The project aims to advance the date of planting crops with sunflower in the countries of the European Mediterranean area, as a strategy to increase production and positioning ourselves at the forefront of the international market, offering a quality product and higher performance (doubling the national media) results. The project involves the search for new seeds, new dose of crops, etc.

Role in the project

Research; Tech. Development; Demonstration;

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0029)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



*FOUNDATION OF AUXILIARY INDUSTRY OF
AGRICULTURE, TECNOVA FOUNDATION*

Technological Centre

*PROFILE from Spain
(14ES0283)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

TECNOVA has its own experimental station, laboratories and technology to carry on laboratory, semi-field and field experimental works. In these installations is possible to work with different

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

vegetable cropping systems (protected and non-protected). TECNOVA has its own experimental station, laboratories and technology to carry on laboratory, semi-field and field experimental works. In these installations is possible to work with different vegetable cropping systems (protected and non-protected).

In relation to the topic, TECNOVA could:

- To study the predatory or parasitic capacity of different stages of the new biological control agent (in laboratory, semi-field and field conditions) with the most important pests of the vegetable crops.
- To study the interaction of the new biological control agent (in its different stages) with the most used auxiliary insects in biological control of vegetable crops of south-east of Spain (in laboratory, semi-field and field conditions).
- Crop management of the different vegetable crops used in the experimental works.

Dissemination of experimental work results to the biological control companies, technical advisors and farmers in vegetable crop production system.

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

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City: Sevilla

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

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Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



DERETIL VITATECH S.L.U.

Technological Centre

*PROFILE from Spain
(14ES0030)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

Deretil Vitatech is the Deretil's group technological company. Deretil group is worldwide leader company in the development and production of semisynthetic antibiotic side chains (based in non natural chiral aminoacids like D-parahydroxyphenylglycine, D-Phenylglycine, D-Dihydrophenylglycine, D-Valine, etc).

From 2009 Deretil group started a growth strategy based in new business in the fields of agronutrients (special fertilizers like micronutrients chelates, aminoacids, biostimulants, etc), and in 2013 started the development of active ingredients to be used in cosmetics, food and feed (natural antioxidants and other interesting molecules).

Relevant R&D projects are:

- Natural products extraction and purification (membranes, chromatography, etc). Examples like polyphenols, steviolides, tannins, anthocyanins, etc.
- Biomolecules obtained by fermentation to be applied in Agriculture (biofertilizers and/or biopesticides), nutrition and/or cosmetics.

Expertise offered (related to the topic)

We can be considered as a partner in the following activities:

- Special fertilizers design and formulation. Liquid and dried form.

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Sector Group Agrofood

- Spray drying granulation.
- Process scale-up from lab to plant.
- Growth stimulants, elicitors, phytostrongthener with high antioxidant polyphenolic compounds, etc, based in natural extracts and microorganisms.
- Pilot and production plant suitable for demonstration stages in projects, including fermentation, microfiltration, chromatographic purification...
- Biotechnology, synthesis and analytical laboratories.

Previous FP experience

CADOX Project: "A coupled advanced oxidation-biological process for recycling of industrial waste waters containing persistent organic contaminants"

Project reference: EVK1-CT-2002-00122

Funded under: FP5-EESD

Country: Spain

Info: <http://cordis.europa.eu/projects/EVK1-CT-2002-00122>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0031)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,

<http://www.juntadeandalucia.es/medioambiente/site/rediam>

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic SFS 3 - 2014: Practical solutions for pests and invasive alien species affecting plants, based on research for prevention and controlling of pest and invasive alien species and the involvement of SMEs to translate the finding into marketable products or services.

We have participate in a international projet (MedMIS) which scope was very similar to those that this topic address, we have deployed a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

We have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs). It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings. It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

We have also participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collaborate collecting information on marine protected areas and gathering data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project 's consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



ISOIN

SME

*PROFILE from Spain
(14ES0032)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

ISOIN (www.isoin.es) is a Spanish SME working in Information Technology field, with deep experienced and a high qualified labour in software development, ambient intelligence, mobile communications and system integration. ISOIN has been developing, for years, high quality products for its customers, doing consultancy services, analysing the ICT market, and providing training to public and private companies. ISOIN workforce is composed by a multidisciplinary team ranging from different areas of engineering (mechanical, telecommunications, computer science, economics and agricultural sciences) being spread out Spain, Italy and Colombia. At the same time, research and development have been one of ISOIN main aims in order to continue improving its solutions and services to its customers. Hence ISOIN has been participating in National and European R&D projects for more than ten years, starting back in FP5 at European level and never stopping since then. ISOIN has several on-going projects in different European calls (FP7, AAL, EUROSTARS), and national ones, developing innovative solutions for adding value to our products and services. Some of these projects and its key-words are:

- FORSAT - A satellite image processing platform for high resolution forest assessment.
- DIET4Elders - A system that collects data regarding the older adult's self-feeding activities and generate a response based on a prescribed diet.
- COIN - Collaboration and Interoperability services based on cloud computing and SaaS.

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- T&TNet - Travel & Transport solutions through emotional-social NETWORKING aimed at elderly.

Expertise offered (related to the topic)

The applications of ICT for this topic are quite board:

- Software engineering and software development of platforms, interfaces, DSS, etc.
- For the management of data we can provide Cloud Computing, Data Mining, image data storage platform Ontologies, etc
- We can develop platforms for Smart Environments (Wireless Sensor Networks, Z-wave, OSGi, Devices Profile for Web Services, etc)

ICTs can provide and manage extensive information that can be stored and accessed online.

GPS, satellite imagery, remote sensors, and aerial images help to assess soil, land and forest variations.

Precision agriculture needs of Decision Support Systems (DSS) for optimization and management of inputs, and a platform for the integration of sensors (WSNs), other technologies like GPS and GIS, communications protocols and an easy-to-use interface for the end user.

ISOIN counts in a previous experience thanks to FORSAT "A satellite image processing platform for high resolution forest assessment," is a project to raise the current technological capacity of aerial imagery combined with airborne laser scanning for forest cover mapping applications to a stand-alone, satellite-based monitoring capacity, where ISOIN is a partner.

Previous FP experience

ISOIN´s count on a long track of experience in coordinating and participating in European projects in many different R&D programmes, but specifically in Framework Programme ISOIN has been involved in:

FP5-OLIMP3D: 3D technologies applied to industrial design and modelling of industrial products for SMEs

FP6-CADPIPE: Cad Production Pipeline

FP6-ECOLEAD: European Collaborative networked Organizations LEADership initiative

FP7-COIN: Enterprise Collaboration & Interoperability

FP7-MyUI: Mainstreaming Accessibility through Synergistic User Modelling and Adaptability

Role in the project

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Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0033)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0034)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



*GALICIAN INSTITUTE OF AGROBIOLOGICAL RESEARCH.
SPANISH NATIONAL RESEARCH COUNCIL. CSIC*

R&D Institution

*PROFILE from Spain
(14ES0035)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group, namely "Biotechnology of Woody Plants", belongs to the "Galician Institute of Agrobiological Research" (IIAG) of the Spanish National Research Council (CSIC). It is located in Santiago de Compostela (Northwest Spain).

We have large experience in the propagation and germplasm preservation of woody species as well in biochemical, cellular and molecular analysis of their developmental processes. Besides basic approaches studied through national and regional projects, applied biotechnological aspects have also been developed through collaboration with companies.

Related Projects:

- INTEGRACASTANEA: Vertical integration project on chestnut: from breeding to final products. FEDER-INNTERCONECTA 2013-2014.
- Characterization of chestnut genes involved in morphogenetic processes related to clonal propagation of selected trees. 10 MRU400033PR. 2010-2013.
- Large-scale biotechnological production of improved materials for chestnut breeding. 09MRU016E. 2009-2012.

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- Biotechnology applied to forestry production. Somatic embryogenesis in mature materials of chestnut, oak and beech. Genetic transformation. 9MRU002400PR. 2009-2012.
- Functional analysis of GRAS genes during adventitious rooting of forestry species. AGL2008-05105-C02-02. 2009-2011.
- Development of liquid culture systems for genetic transformation of embryogenic lines of *Quercus robur*. CSIC. PIE 200940I011. 2010.
- Non-hormonal Compounds and Signalling Pathways for the Improvement of Adventitious Rooting in Forest Species. Integrated Action Italy-Spain. 2008-2009.
- Selection of base materials of chestnut by their resistance to *Phytophthora cinnamomi*. Large-scale production of qualified forest reproduction material. (Subcontracted by TRAGSA through PGDIT07MRU003E). 2007-2009.
- Somatic embryogenesis in mature oak; basic aspects regarding its induction. Genetic transformation. AGL2006-01387. 2006-2009.
- Biotechnology applied to forestry production. Genetic transformation of chestnut, poplar and birch. AGL2005-00709. 2005-2008.
- Propagation and germplasm preservation of oak selected genotypes by somatic embryogenesis and cryopreservation. PGIDT03RF040001PR. 2003-2006.
- Development of in vitro systems for regeneration of chestnut and their use in genetic transformation programs. Development of molecular markers to detect fungal resistance in natural populations of *Castanea sativa* Mill. AGL2000-1073. 2000-2003.

Expertise offered (related to the topic)

1) Research on tolerance/resistance to pathogens in forest trees.

1.1) Analysis of biochemical and molecular changes after pathogen

inoculation of tolerant/resistant/susceptible trees. Analysis of gene expression.

1.2) Characterization of tolerant/resistant trees by using DNA/RNA markers.

2) Genetic transformation of forest trees.

3) Ex situ preservation of material of selected forest trees by micropropagation (axillary shoots and embryogenic cultures). Medium-term storage by slow growth techniques and long-term storage by establishment of cryopreserved gene banks of selected genotypes.

4) Large-scale production of selected trees by micropropagation: establishment, proliferation in semisolid and liquid medium (bioreactors), rooting and acclimation.

Previous FP experience

Proposal participation:

- Comparative and functional forest genomics for abiotic stress, adaptation and productivity. Collaborative Research Program Spain-Canada 2004

Actions COST:

Action 822: Development of integrated systems for large-scale propagation of elite plants using in vitro techniques. 1994-1999

Action G4: Multidisciplinary Chestnut Research. 1997-2001

Action 843: Quality Enhancement of Plant Production through Tissue Culture. 1999-2004

Action E-28: GENOSILVA: European Forest Genomics Network. 2002-2006

Action COST FP0905: Biosafety of Forest Transgenic Trees: Improving the Scientific Basis for Safe Tree Development and Implementation of EU Policy Directives. 2010-2014

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



RESEARCH GROUP: " *INTERACCIONES PLANTA-BACTERIA*" (BIO180)

R&D Institution

PROFILE from Spain
(14ES0036)

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Estación Experimental del Zaidín (EEZ) is a research Centre of the Spanish Council for Scientific Research (CSIC) Agency. The EEZ science programme focussed on Agricultural Sciences is structured on the basis of the Departments of Biochemistry, Cell and Molecular Biology of Plants; Microbiology of Soil and Symbiotic Systems; and Environmental Protection.

The mission of the EEZ is a center of excellence on plant sciences, microbiology and environmental protection

- carrying out fundamental and strategic research aimed at the understanding and exploitation of plants, microbes and their relationships, with especial emphasis on crop yield, quality, valuable products and the improvement of the environment
- training high quality PhD students and post-doctoral scientists in the different research lines of the Centre.
- making our findings available to the society, disseminating knowledge, technology and know-how to meet the needs of end-users.

Collectively the research carried out at EEZ will contribute to the development of a more sustainable and environmentally-friendly agriculture. The improvement of crop production and fruit quality as

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

well as the increase of stress tolerance in plants of agronomical interest will be achieved by different means, including interactions with beneficial microorganisms and improved plant species, following diverse strategies based on genetics, genomics and molecular biology approaches. Our research is also focused on the protection agricultural crops through basic research of various aspects of plant-pathogen interactions.

Expertise offered (related to the topic)

Plant pathogenic bacteria exert a strict control of the functions involved in the interaction with plants, which allow them to move from a free-living mode to another more advantageous in close relationship with their hosts. Our aims are to identify novel genetic determinants and molecular mechanisms involved in pathogenic bacteria-plant interactions, particularly new chemical signals and bacterial components, and the characterization of bacterial resistance mechanisms to antimicrobial compounds from plants.

In order to study the bacterial resistance mechanisms to antimicrobial compounds from plants, we have focused on the physiological, biochemical and molecular characterization of multidrug resistance transporters (MDR) and their role in the response to stress, colonization and virulence.

The c-di-GMP is considered a second messenger involved in the regulation of numerous bacterial functions, among which are many involved in the interaction with eukaryotes such as virulence, motility, aggregation, adherence and biofilm formation. Accordingly, pathogenic bacteria of the genus *Pseudomonas* have in their genomes numerous genes that encode proteins involved in the synthesis and degradation of this second messenger. We study bacterial functions regulated by c-di-GMP in *Pseudomonas syringae* during the interaction with their host plants through a multidisciplinary approach that includes the use of new methodologies such as bioinformatics, genomics, proteomics, and other cellular and molecular approaches. With the knowledge gained, we hope to develop new biotechnological tools to control phytopathogenic bacteria.

Previous FP experience

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A. [2014] Native and alien pests in agriculture and forestry



RESEARCH GROUP: "BASES BIOLÓGICAS PARA EL CONOCIMIENTO, CONSERVACIÓN Y USO SOSTENIBLE DE BIODIVERSIDAD" (RNM-322)

R&D Institution

*PROFILE from Spain
(14ES0037)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A. [2014] Native and alien pests in agriculture and forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

Biological control of Lepidoptera and Coleoptera pests. Use of entomopathogens (virus, bacteria and fungi) for control of key pests on agricultural and forest ecosystems: cotton, maize, olive, holm oak, chestnut, etc. Relevant projects: 1) Parasitoid-path

Expertise offered (related to the topic)

1) Isolation of entomopathogens strains in agricultural and forest ecosystems; 2) Insecticide evaluation of entomopathogens on Lepidoptera and Coleoptera insects by laboratory and field assays; 3) Optimization on production methods of entomopathogens; 4) Compatibility between entomopathogens and entomophagous species (parasitoids and predators)

Previous FP experience

AIR, Third Framework Programme, AIR10386: LARGE-SCALE PRODUCTION OF VIRAL BIOPESTICIDES IN INSECT CELL CULTURES TO REDUCE WIDE-SPECTRUM INSECTICIDE USE
AIR, Third Framework Programme, AIR10386: LARGE-SCALE PRODUCTION OF VIRAL BIOPESTICIDES IN INSECT CELL CULTURES TO REDUCE WIDE-SPECTRUM INSECTICIDE USE

Role in the project

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants. B. [2014] EU-China cooperation on IPM in agriculture



RESEARCH GROUP: "SISTEMAS DE PRODUCCIÓN EN PLASTICULTURA E INFORMÁTICA APLICADA A LAS CIENCIAS AGRARIAS Y MEDIOAMBIENTALES" (AGR-172). UNIVERSITY OF ALMERIA

R&D Institution

*PROFILE from Spain
(14ES0278)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants. B. [2014] EU-China cooperation on IPM in agriculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

We are a cluster of researchers of different research groups of the University of Almeria, including AGR-172 (Production systems in plasticulture, and computer science applied to agricultural and environmental science.), TIC-181 (Data, knowledge and software engineering) and AGR-198 (Rural engineering). Our research group have been working on Integrated Production Systems during last 10 years. We have developed several systems (RAID) to support Integrated Production of Horticultural Products and and Olivar for the Ministry of Agriculture of the Regional Government of Andalusia - Spain. Actually we are leading a People IRSES project "TEAP - A Traceability and Early warning system for supply chain of Agricultural Product: complementarities between EU and China" between 5 European Universities (Agricultural University of Almeria, University of Athens, University of Bonn, University of Pisa, Technical University of Madrid) and 6 research institutes and universities of China (Beijing Research Center for Information Technology in Agriculture, Shandong Agricultural University, Tianjin Climate Center, Tianjin Pollution-Free Agri-products (crop planting) Management Center, Guangzhou Agricultural Products Quality and Safety Supervisory Institute y China Agricultural University), effective between 2014 and 2017.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

1. Integrated Production Management Information System. 2. Previous International collaboration with agricultural institution (research, governmental and industrial in China). 3. Long lasting collaboration with local stakeholders in Almeria (farmers, cooperatives and administration). 4. Experimental fields, both in Almeria (EU) and China.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0038)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

GRUPO TRAGSA is a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

TRAGSATEC is a company member of GRUPO TRAGSA. It is an engineering company mainly focused on providing the Spanish Public administration with technology services in all environmental and rural-related sectors (agriculture, fishery, rural-development, environment, etc.). TRAGSATEC is a highly specialised company that relies on its own technology to execute projects and provide technical assistance related to environmental management, improvement of rural areas, agrarian infrastructures ...

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

TRAGSATEC counts on a Rural Development Unit which includes a group specialized in Environmental Management. This group works for the Spanish Ministry of the Environment and different Spanish Public Bodies, and has a relevant experience in the Protection and conservation of the environment, as well as in the. The main lines of activity in this area are:

- Inventory, diagnosis, characterisation, conservation, management and monitoring of flora and fauna and terrestrial and marine habitats.
- Conservation of genetic resources.
- Monitoring and control of invasive species.
- Development and implementation of regional, national and international biodiversity conservation legislation.
- Training and dissemination activities, including social involvement and work campaigns with volunteers

These activities include the design of specific methodologies, field and laboratory works, development of software tools and the participation in international meetings for the monitoring of the established activities. As the company works nationwide, it has experience in the fight against different IAS, in different ecosystems and conditions.

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants



FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG

R&D Institution

*PROFILE from Germany
(14DE0321)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to another markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personal in biological and instrumental analytics. The stuff has experience in diagnosing and managing plant diseases in the forest sector:

- Morfological and Molecular Identification (PCR, RT-PCR, qPCR, sequencing)
- Pathogenicity Test (e.g. Phytophthora pinifolia, Diplodia pinea and Fusarium circinatum on radiata pine seedlings)
- Monitoring and Biological Cycle of Phytophthora pinifolia
- Biocontrol agents production for pest and disease control (Trichoderma, Avetianella and Anaphes)
- Species identification (PCR-RFLP, DGGE)
- Fungicides selection at in vitro level for Fusarium circinatum and Phytophthora pinifolia control

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry



BIOFEED ENVIRONMENTALLY FRIENDLY PEST CONTROL LTD.

SME

*PROFILE from Israel
(14IL0331)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

Biofeed Ltd. is a small enterprise (SME) who focuses on fruit fly environmentally friendly Area-Wide-Control solutions. Using the Biofeed technology with our unique fruit fly ecological know-how, we are able to reduce fruit fly spraying by 99% and with an average infestation rate lower than 0.2%. Biofeed's innovative technology consists of a simple, easy to use flat-panel device encapsulating a liquid bait container. Fruit flies are lured to the device, feed on it and as a result die soon after. The Biofeed device acts as a long-term feeding station using a unique slow-release dripping mechanism lasting up to 365 days, thus require low maintenance. The Biofeed technology enables to combine different attractants and pheromones in order to target different fruit flies (or any other pest), as well as to change the color and shape of the feeding station itself. That is, we are able to tailor make feeding stations that can be used as attract and kill units or for other purposes, e.g. for feeding only, therapeutic purposes, scientific methods etc. Our contribution to the consortium:

1. Technology – A system for slow release and integration of flavors and attractants, targeted for pest control.
2. Research of the ecology and biology of the targeted pest in the field.

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3. Know-how – physical assess of the control methodologies and their application at Area-Wide-Control geographic scales.

Expertise offered (related to the topic)

See Entity Profile

Role in the project

Research; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry



AGROCONSULTING. OLIVICULTURA DE PRECISIÓN

SME

*PROFILE from Spain
(14ES0342)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

AGROCONSULTING, Olivicultura de Precisión, is a pioneer company specialized in Precision Olive Farming.

Main activities:

- We develop integrated agricultural solutions for growing olives in order to achieve healthy, profitable and sustainable farms.
- We research, develop and commercialize specific to maximum effectiveness products with minimal environmental impact.
- We introduce new methods and technologies that improve the farmer work in order to facilitate decision-making in agricultural management.

We have a plant innovation laboratory, INDEPHYT, dedicated to understand the olive tree internal processes and the natural elements that influence their development.

Expertise areas:

- Health and nutrition plant
- Irrigation and fertigation

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Plant biotechnology
- Information and communication technologies

Expertise offered (related to the topic)

More than 10 years of experience support our understanding of olive farming and olive oil production as a sustainable system that seeks adequate productivity and profitability, resource conservation, environmental protection and food safety.

Research areas:

- Soil microorganisms and their crude extracts collection: plant biotechnology pioneer program to diagnose, control and eradicate pests and disease of olive tree.
- Plant biostimulation: olive tree biostimulating agents development.
- Quality of irrigation water: influence of irrigation water quality on soil chemical properties and their effects on the crop.
- In vitro culture: we produce sterile plants in order to get rid of diseases and

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Contact person: Cristina Cabeza

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0345)*

TOPIC OF INTEREST

TOPIC

SFS-3-2014: Practical solutions for native and alien pests affecting plants. A [2014] Native and alien pests in agriculture and forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has a large expertise in research activities related to Integrated Pest Management, coordinating different projects in which it has been studied the efficiency of new biological agents in

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

field conditions and comparing the effects on reduction of environmental impacts in relation to conventional grown strategies.

Taking into account the concept “multi-actor approach”, IDEALFOOD can provide stakeholders interested in this topic, including SMEs and other companies to translate the finding into marketable products or services.

IDEALFOOD can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Developing effective solutions for the prevention and management of pests and invasive alien species.
- Development strategies or improving the productivity and resilience of agriculture in the context of changing environmental conditions.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-4-2014: Soil quality and function



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0039)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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Partnership Profile

SFS-4-2014: Soil quality and function



*FOUNDATION OF AUXILIARY INDUSTRY OF
AGRICULTURE, TECNOVA FOUNDATION*

Technological Centre

*PROFILE from Spain
(14ES0284)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

TECNOVA has its own experimental station, laboratories and technology to carry on laboratory, semi-field and field experimental works. In these installations is possible to work with different vegetable cropping systems (protected and non-protected). Also one of our agricultural engineer is

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

part of Focus groups of the EIP on "Agricultural Productivity and Sustainability". We can bring our experience in growing vegetables on a semi-arid environment in areas almost totally degraded soils with organic matter content lower than 1% and a soil profile of several centimeters, near parent rock. Most of our experience is based on proper handling of soil amendments and knowledge about the interactions between the different parameters that affect soil fertility.

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-4-2014: Soil quality and function



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0040)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and
- Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with an heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has felt always at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,

<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic SFS 4 - 2014: Soil quality and function based on research and analyze of european agricultural land use and the effects of land use and management on soil properties. We think that the initiatives promoted are really challenging for an organization like Geographica with experience in remote sensing, geospatial technologies that integrates, analyze, and display data and spatial information, reporting, creation of indicators in real time, applications that performs hypothetical scenarios, projections and comparisons of them, and perform evolutive studies. All this technologies could be implemented in projects under this topic.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project ´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning

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methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-4-2014: Soil quality and function



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0041)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client´s requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicules

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-4-2014: Soil quality and function



EDAPHOLOGY
DEPARTMENT.
COMPOSTELA

R&D Institution

*PROFILE from Spain
(14ES0042)*

AND AGRICULTURAL CHEMISTRY
UNIVERSITY OF SANTIAGO DE

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Santiago de Compostela (USC), founded in 1495, is one of the university institutions with a great tradition in Europe. The large number and excellence of the courses taught and the quality of the research undertaken particularly in the fields of life sciences and agrofood place the USC among the most prestigious universities in Spain and Europe. As a matter of fact a USC's main project called CAMPUS VIDA (Life Science Campus) has been qualified in 2009 as an International Campus of Excellence by the Spanish Ministries of Education and Science and Innovation.

Expertise offered (related to the topic)

SOILS: COMPONENTS, PROPERTIES AND CLASSIFICATION. Project: "Soil Map of Galicia, 1:50,000" (P.I.: Rosa Calvo de Anta). Project funded by the Galician Government. Xunta de Galicia. (see: "mapa de solos de Galicia" www.siam.cmati.xunta.es). SOIL ABILITY/CAPABILITY (agricultural, forestry and other uses).

BIOGEOCHEMISTRY IN FOREST SOILS. Such as: Project: Organic Matter Turnover in West European Climatic Transect of Coniferous Forest. UE Project. DECO/FERN 1988-1992. P.I. Bjorn Berg (Uppsala) (see: Berg, B. et al., 1993. Litter mass loss rates in pine forests of Europe and Eastern United States: some relationships with climate and litter quality. *Biogeochemistry* , 20, 127-159; Berg, B. et al., 1995. The Chemical composition of newly shed needle litter of scots pine and some other pine

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

species in a climatic transect. X long-term decomposition in a scots pine forest. Canadian Journal of Botany-Revue Canadienne de Botanique, 73, 1423-1435).

SOIL AS CARBON SINK: Project: "Digital Map of Soil Carbon Stock of Spain-North ". Project funded by the Government of Spain. Ministry of Science and Innovation (Plan Nacional I+D: ref. CGL2009-2013. 13857) (P.I.:R. Calvo de Anta).

CONTAMINATION AND RECOVERY SOILS. Such as: (1) Project:" Recovery Project of Soils Contaminated by the disaster of Aznalcóllar mine, Spain.1998". Project funded by Andalusia Government-EGMASA (see: F. Macias, F., R. Calvo de Anta, et al., 2000. Bases Científicas del Proyecto de Recuperación de Suelos Contaminados de la Cuenca del Río Guadiamar. In: Ciencia y Restauración del Río Guadiamar. Junta de Andalucía (www.juntadeandalucia.es); Calvo de Anta, R. & Macias, F.,2004. Estudio sobre el estado de los suelos del Corredor verde del Guadiamar. Convenio de colaboración Junta de Andalucía- Universidad de Santiago de Compostela; Calvo de Anta, R. & Macias, F.2009. Remediation of Soils Contaminated with Pyritic Sludge from a Mine Spill in Aznalcóllar, Spain. Advances in Geoecology, 40, 295-310. 2009. (2) Project: "Generic Reference Levels of Heavy Metals in Soils of Galicia, Spain". Project funded by Galicia Government, 2009 (see: Niveis Xenéricos de Referencia de metais pesados en solos de Galicia, 229pp. (www.siam.cmati.xunta.es/Publicacions/solos).

Previous FP experience

The University of Santiago de Compostela has been working actively in more than 100 projects under the various European Union RTD Framework Programmes.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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Postcode: 15590

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Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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E-mail: galactea@cisgalicia.org

Partnership Profile

SFS-4-2014: Soil quality and function



RESEARCH GROUP: "BIOLOGY AND CONTROL OF PLANT DISEASES"

R&D Institution

*PROFILE from SPAIN
(14ES0043)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

Different research projects are being conducted by our group (BIOLOGY AND CONTROL OF PLANT DISEASES), with aims in the etiology, epidemiology and control of diseases of relevant subtropical and Mediterranean crops, as well as in the characterization of the biology, pathogenesis, virulence and ecology of bacteria and fungi that cause them. The plant diseases in which we currently work are: (1) apical necrosis of mango by *Pseudomonas syringae*, (2) olive knot by *Pseudomonas savastanoi*, as models of bacterial diseases, considering different aspects of control, virulence factors, toxins, plasmids, host specificity and pathogenesis, (3) mango malformation by *Fusarium* spp. and, (4) avocado root rot by *Rosellinia necatrix*, and (5) cucurbit powdery mildew by *Podosphaera fusca*, as fungal disease models, considering different aspects about etiology, populations diversity, fungicide resistance, biological control and multitrophic interactions. These objectives are being addressed by different methodological approaches ranging from conventional methods in Plant Pathology to genomic approaches, as genome and plasmid sequencing, transcriptome analysis or functional genomics. Projects list:

- Genomic approaches for the rational control of cucurbit powdery mildew (*Podosphaera fusca*)
- Emerging diseases of mango crops in Andalusia. From basic research to technology transfer
- Mango malformation disease and its causal agent *Fusarium* spp.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Genomic strategies for biological control of fungal diseases affecting relevant crops in Andalusia (Spain)
- Functional analysis of virulence factors and host specificity determinants in *P. savastanoi*
- Functional Genomics and Proteomics of Bacterial MDR Transporters During Plant Infection
- Understanding biological control of *Rosellinia necatrix*: genomic strategies applied to the study of multitrophic interactions in the avocado rhizosphere

Expertise offered (related to the topic)

- 1) Etiology, epidemiology and control of diseases of relevant subtropical (avocado and mango) and Mediterranean (olive and cucurbits) crops
- 2) Characterization of the biology, pathogenesis, virulence and ecology of bacterial and fungal phytopathogens
- 3) Biological control of soil and phyllosphere fungal pathogens
- 4) Population diversity studies (phyllosphere, rhizosphere and soil)
- 5) Suppressive effect of organic amendments on fungal diseases

Previous FP experience

- 1) A member of the group participated as postdoctoral researcher in project BIO 2-CT92-0084 (Biotechnology, FP III)
- 2) A postdoctoral member of the group is currently associated to the U-mobility program of the EU-University of Malaga (Spain), co-financed by the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme, G.A. no. 246550

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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Partnership Profile

SFS-4-2014: Soil quality and function



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0044)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

We have worked hard to achieve a more sustainable agriculture, combining the modernization of farms with environmentally friendly practices. As an example, we advised farmers regarding chemical fertilizers and we managed to reduce its use in 30% and to improve the utilization of solid and liquid fertilizers produced directly on the farms.

The types, the uses and the management of our clients are very heterogeneous (we advise farmers who represent approximately 28,400 hectares). We perform a lot of annual analytics to our clients in order to know the needs for nutrients and the pollution of agricultural soils.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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E-mail: galactea@cisgalicia.org

Partnership Profile

SFS-4-2014: Soil quality and function



AGROTECH

Technological Centre

*PROFILE from Denmark
(14DK0297)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

AgroTech is a non-profit research and innovation institute working with technologies for the agricultural sector and food sector. We participate in research, development and demonstration projects supported by public funds. Moreover, we deliver independent test and documentation of new technologies and research-based consultancy on commercial basis related to the development of new technologies. In our work we pay special attention to small and medium-sized companies but we cooperate with companies of any size and any nationality. Environmental technologies for a cleaner agricultural production is one of five core fields of expertise in AgroTech.

Expertise offered (related to the topic)

AgroTech offers expert knowledge on various topics along the chain from biomass production, harvest, storage and use of different fractions of the biomass for food, feed, fertilizer, biomaterials and bioenergy. Activities concern experimental work, analysis of new and existing data, desk studies, elaboration of scenarios etc. as well as dissemination of knowledge to research communities, advisors, companies etc.

A specific interest is concerned with a sustainable enhancement of biomass yields as well as biomass quality for various utilizations. Increased biomass yields may be obtained by improved crop rotation systems which may include perennial crops such as various grass species adapted to different

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

environmental conditions, use of double cropping systems as well as catch-crops. In addition to improving yields, this may contribute to maintaining or even increasing the soil organic matter content as well as reducing emission of green-house gasses and leaching of nutrients to the aquatic environment.

Previous FP experience

AgroTech was coordinator in a FP6-project called "AGROBIOGAS - An integrated approach for biogas production with agricultural waste". It was a 3-year Collective Research project with 24 partners from 10 European countries. Total budget amounted to 2.8 million EURO. In addition to AGROBIOGAS, AgroTech has experience from participation in EU projects under the Intelligent Energy Europe-programme and the Interreg-programme.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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Country: Denmark

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-4-2014: Soil quality and function



UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

PROFILE from Spain
(14ES0301)

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Santiago de Compostela (USC), founded in 1495, is one of the university institutions with a great tradition in Europe. The large number and excellence of the courses taught and the quality of the research undertaken particularly in the fields of life sciences and agrofood place the USC among the most prestigious universities in Spain and Europe. As a matter of fact a USC's main project called CAMPUS VIDA (Life Science Campus) has been qualified in 2009 as an International Campus of Excellence by the Spanish Ministries of Education and Science and Innovation.

Expertise offered (related to the topic)

Soil organic matter

Waste management

Techniques:

solid-state ¹³C nuclear magnetic resonance (NMR) spectroscopy

Reflectance Infrared Fourier Transform (FTIR)

Thermal analysis (DSC and TG)

Role in the project

Research; Training;

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

City: Ferrol

Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-4-2014: Soil quality and function



F · A · R · M S Y S T E M

SME

*PROFILE from Germany
(14DE0309)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

F · A · R · Msystem offers a data management service, for example the data preparation and data analysis for the management system precision farming.

Based on the output of yield mapping, based on site-specific nutrient balances of arbitrarily shaped fertilizer application rates and soil nutrient contents are calculated. A monetary evaluation of these site-specific balances through F · A · R · Msystem using business data is also possible.

Furthermore for each subarea the profit contribution of the process can be calculated and we also create economic scenarios with varying costs and revenues. Thus, it is possible to consider future or expected market developments in planning application maps. As a full service we offer the creation of application maps.

Expertise offered (related to the topic)

GIS analysis, soil mapping strategy, generate small scale soil field maps, yield analysis; nutrient balance and economic yield analysis; location assessment; application maps and especially lime application mapping for site-specific liming

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-4-2014: Soil quality and function



IOTEC GMBH

SME

*PROFILE from Germany
(14DE0310)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

The company iotec GmbH is more than an engineering firm. It develops software and hardware in the field of agricultural and sensor technology. Furthermore, the guidance includes the selection of sensors to offer the company. Also, the distribution of in-house developments in the area of intelligent sensor technology represents a business unit of the company. Main focus is development and programming of plug-ins for ISOBUS terminals (Human Machine Interface), and communication between sensors and ISOBUS components. The development of electronics for the agricultural technology is another area of emphasis.

Expertise offered (related to the topic)

Software: VHDL, Matlab, LabView, AGF-Plugins, databases; Hardware: analogue electronics, development of new hardware, ISOBUS components, microcontroller, FPGA, CAD; Other: field testing, multi-reflective ultrasonic sensor system

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-4-2014: Soil quality and function



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0346)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has participated in projects related to plant-soil-microbial interaction in which have been studied different types of agricultural land use and management on soil properties and soil functioning.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

IDEALFOOD works on different crops and livestock farming systems. For example, it has a deep understanding of the process of sustainable olive crop or growing on a semi-arid environment in areas almost totally degraded soils with organic matter content lower than 1% and a soil profile of several centimetres, near parent rock. Most of our experience is based on proper handling of soil amendments and knowledge about the interactions between the different parameters that affect soil fertility.

Taking into account the concept “multi-actor approach”, IDEALFOOD can provide stakeholders interested in this topic, including SMEs and other companies. IDEALFOOD can provide partners from third countries.

IDEALFOOD can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Improving capacity and methods to assess soil-management interactions
- Increasing crop productivity, quality and yield in conventional and organic farming.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-4-2014: Soil quality and function



*CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING
AND OLIVE OIL*

Technological Centre

*PROFILE from SPAIN
(14ES0374)*

TOPIC OF INTEREST

TOPIC

SFS-4-2014: Soil quality and function

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

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c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the process of sustainable olive growing. Specific expertise in the topic is based in the following background and technological tools:

a. Olive growing carbon footprint

b. Agronomic management techniques for olive orchards

c. Communication, dissemination and transfer of research results

d. Management and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

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FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain.
Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0045)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



*FOUNDATION OF AUXILIARY INDUSTRY OF
AGRICULTURE, TECNOVA FOUNDATION*

Technological Centre

*PROFILE from Spain
(14ES0285)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

ECNOVA has its own experimental station, laboratories and technology to carry on laboratory, semi-field and field experimental works. In these installations is possible to work with different vegetable cropping systems (protected and non-protected). Also one of our agricultural engineer is part of Focus groups of the EIP on "Agricultural Productivity and Sustainability". Also we have seed

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

companies some of them SMEs and they are working on increasing productivity and stability of the agricultural sector through improved varieties and crop management strategies which allow for increased diversity and show higher adaptability to particular environments including under a changing climate

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0046)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agri-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40 National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

Expertise offered (related to the topic)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Postcode: 41092

City: Sevilla

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0047)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Vision
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicles

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- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality

 **C.I.S.A.O. – INTERDEPARTMENTAL CENTRE OF RESEARCH AND COLLABORATION WITH SAHELIAN AND WEST AFRICAN COUNTRIES**

R&D Institution

*PROFILE from Italy
(14IT0048)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

C.I.S.A.O. – Interdepartmental Centre of Research and Collaboration with Sahelian and West African Countries To this centre belong researchers and professors of Departments of the University of Turin, Public Research Institutions and independents technical and teaching assistants.

The departments involved are:

- Department of Chemistry;
- Department of Economy "S. Cagnetti De Martiis";
- Department of Agricultural, Forest and Food Sciences and Technologies;
- Department of Veterinary Sciences;
- Department of Geological Sciences;
- Department of Cultures, Politics and Societies.

Principal activities of the centre are the coordination of decentralized projects funded by the Piedmont Region in the 2000 in the programme "Fight against poverty and food security". Every year new projects develop different activities such as animal production, animal health, conservation of endangered breeds, agricultural productions, economics researches (cooperatives, women associations), environmental protection activities, etc. Moreover the centre has been involved in

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many other projects, such as the IAO Gender Project (Italian Foreign Ministry – DGCS), the UNI.COOP. Project (University of Turin – Foundation of Casse di Risparmio del Piemonte), 4CITIESXDEV (Europeaid).

On October 2013 has begun the Higher Education Program EU-ACP titled R.U.S.S.A.D.E. (Network of Sahelian Universities for Food Security and Environmental Sustainability – FED/2013/320-115). The overall objective of the project is to mobilize knowledge and know-how to fight hunger and poverty and to increase environmental care in a sustainable development perspective, improving life conditions of the population and reducing the gender gaps in employment access and in sharing knowledge. The specific objective is to enhance higher education systems through Master courses to give technical, scientific and methodological bases to the students, allowing them to manage natural resources and to improve agriculture and food security with a multidisciplinary and interdisciplinary approach.

Expertise offered (related to the topic)

The main objective is the improvement of the conditions of life of the sub-Saharan populations and the eradication of extreme poverty and hunger. T

The opportunity of a multidisciplinary approach, even in a defined circle (i.e. a rural community), is really important because leaving from single and specific interventions it can support the others through the immediate transfer of the results of the various experiences. The single activities for the last decade are:

- monitoring and improving milk production (quantitative and qualitative controls) and animal nutrition in Niger (Toukounous Station) and in Burkina Faso (Groupement d'éleveur Ben Kadi – Bobo Dioulasso);
- conservation programme of the Somba cattle breed in the Atacora Region, North Benin (Boukombé and Natitingou);
- epidemiologic controls (infections and tick diseases) in the peri-urban area of Bobo Dioulasso, Burkina Faso, and in Mali;
- goat breed selection programme in S. Antao Island (Cape Verde);
- sanitary controls for a traditional cheese production in S. Antao Island (Cape Verde);
- use of natural insecticides in Sahel;
- support to beekeeping in Niger, Burkina Faso and Mali;
- support to good management of garbage in Cape Verde, scholar educational programme;

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- management of protected areas and natural parks in Senegal and Burkina Faso;
- support to women associations in Burkina Faso;
- support to farmer's associations and cooperatives in Senegal and Burkina Faso;
- recycling of plastic refusals in Niger.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality

 **DEPARTMENT OF AGRICULTURAL AND FOREST SCIENCES**
R&D Institution
PROFILE from Italy
(14IT0049)

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Department of Agricultural and Forest Sciences has a complete profile in relation to all the research activity on agricultural basis. It has a long history in terms of teaching and researching in Agricultural Sciences. The Research Unit on Plant Biodiversity (RUPB) at the Department of Agricultural and Forest Science of the University of Palermo is focused on the study of plant biodiversity in Mediterranean agroecosystems, on its characterization and in situ/ex situ conservation, in vivo as well as in vitro. The RUPB is also dedicated to the development of best management practices to be adopted for a functional biodiversity use in order to value agrobiodiversity and to enhance farm productivity.

The RUPB has been and still now is involved in several research projects related to the aspects derived from biodiversity traits.

By now, the RUPB leader is coordinating a Project funded by UE through the Regional Government aiming to build a Center of Conservation for Regional Biodiversity in connection with the European ones.

Expertise offered (related to the topic)

The RUPB offers wide skills in biodiversity estimation, plant taxonomy, plant characterization, local varieties characterization, rural areas management, best practices configuration, related statistical analysis. Moreover, an experience in national and international projects is available including UE projects. The RUPB has also participated at the Governmental Work for licensing the National

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Guidelines for in situ/ex situ conservation and characterization of vegetative, animal and microbial biodiversity (2012).

Previous FP experience

PSR 2007/2013 - Action 214/2 - A: Conservation of Biodiversity (Contract number: 94750773338)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN (ASG member) / EEN BRIDGECONOMIES

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



RESEARCH GROUP "DEGRADACION DE TOXICOS ORGANICOS" (BIO191)

R&D Institution

PROFILE from Spain
(14ES0050)

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

Tino Krell heads the Laboratory of bacterial Sensing and Signal Transduction (<http://krell-laboratory.com/>) at the CSIC Institute Estación Experimental del Zaidín (<http://krell-laboratory.com/>). The laboratory studies modes by which sensor proteins detect environmental signals and ITC plays a central role in their research. Using ITC the laboratory has established many collaborations to study diverse molecular interactions.

Expertise offered (related to the topic)

Precise characterization of molecular interaction using microcalorimetry

To understand the molecular mechanisms of biological processes, knowledge on the molecular interaction of participating molecules is essential. Isothermal titration calorimetry (ITC) is now recognized as the Gold standard technique to study the molecular interaction between two ligands. An ITC experiments permits the determination of the full set of thermodynamic binding parameters in a single experiment (association constant K_A , dissociation constant K_D , enthalpy change, entropy change and Gibbs free energy change) and can provide useful information on the binding stoichiometry. An ITC experiment consists in a titration of one ligand with another and heat changes resulting from binding processes are measured. Ligands are both in solution and there is no need for their chemical modification. Since any type of binding causes heat changes ITC permits to analyze all types of molecular interaction.

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Tino Krell is a recognized microcalorimetry expert with more than 50 research articles in this field. He has used ITC to study the interaction between two different proteins (for example Daddaoua et al. (2013) Nucleic Acids Res. In press, Busch et al. (2009) J. Biol. Chem. 284:10353), proteins and DNA (Lacal et al. (2008a) J. Mol. Biol. 384:1037, Lacal et al. (2008b) J. Mol. Biol. 376:325, Guazzaroni et al. (2007) J. Mol. Biol. 369:927, Krell et al. (2007), J. Mol. Biol. 369:1188), proteins and small ligands (for example Garcia-Fontana et al. (2013) J Biol Chem. 288, 18987, Rico-Jiménez et al. (2013) Mol. Microbiol. 88,1230, Pineda-Molina et al. (2012) PNAS 109:18926, Arce-Rodríguez et al. (2012) Environ Microbiol. 14:702, Fillet et al. (2011) PNAS 108(37):15372, Busch et al. (2007) PNAS 104:13774, Lu et al. (2010) Lu et al. Genes Dev. 24:2556, Lacal et al. (2006) PNAS 103:8191) or peptides and small ligands (Santamaría-Hernando et al. (2012) PLoS One. 7:e40698). Since ITC is an universally applicable technique there is almost no limitation as to the choice of ligands and there is significant amount of literature that has described the ITC study of small molecules, RNA, carbohydrates, lipids, sugars etc.. In addition ITC is a universal assay for enzymatic activities (see Todd & Gomez (2001) Anal Biochem. ;296:179-87).

Previous FP experience

External advisor of the Euroneut-41 FP project on the development of an European anti-HIV vaccine (total budget 12 million Euros)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



RESEARCH GROUP: "ESTUDIO DE MECANISMOS DE TOLERANCIA DE LAS PLANTAS A ESTRESSES ABIÓTICOS" (BIO124)

R&D Institution

*PROFILE from Spain
(14ES0051)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

We use an integrated approach to study the biochemical and molecular mechanisms of ion homeostasis in plants in order to develop biotechnological applications to improve salt tolerance, mineral nutrition and water use efficiency in crop plants. The identification and function of transport systems of Na^+ , K^+ and H^+ and their regulatory proteins (NHX, SOS, CHX, CCX, HKT, NhaD and KEA) are investigated in model systems (yeast and Arabidopsis) and crop plants (tomato). For this purpose we use in vitro and in planta functional analysis. In vitro approaches imply membrane protein purification and reconstitution in liposomes, whereas in planta analysis is mainly based on gene overexpression and silencing (RNAi) experiments (Arabidopsis and tomato).

Ongoing Research projects: Estudio del potencial biotecnológico de transportadores de Na^+ y K^+ para la mejora de la tolerancia a la salinidad y la eficiencia en la nutrición del K^+ en tomate

Reference: Proyecto de Excelencia, Junta de Andalucía (CVI-7558)

Co-funding: Fondos FederPrincipal Investigator: M. Pilar Rodríguez Rosales Starting year: 2013 end: 2017

Antiportadores catión/protón intracelulares de plantas: papel en la nutrición de potasio y la tolerancia a los estreses osmótico y salino

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Reference: Plan Nacional (BIO2012-33655)

Co-funding: Fondos Feder Principal Investigator: Cornelius Marinus Venema Starting year 2013 end: 2015.

Long-distance Na⁺ y K⁺ transport in tomato under saline conditions: biotechnological aspects :

PLAN NACIONAL(AGL2010-17090) Co-funding: FONDOS FEDER

Principal Investigator: Andres Belver Cano Starting year : 2011 end : 2013

Expertise offered (related to the topic)

1. Identification of ion transport systems in tomato: search for and cloning of tomato cation/proton antiporters and other transport systems or regulatory proteins based on homology to identified transporters in the Arabidopsis genome (NHX, SOS, CHX, CCX, HKT, NhaD and KEA).
2. Biochemical characterization of the ion transporters in heterologous (yeast and E. coli) systems through protein purification and reconstitution in liposomes in order to determine in vitro transport activity.
3. Functional characterization in plant by means of gene silencing in tomato and gene overexpression in Arabidopsis and tomato.
4. Evaluation of the biotechnological potential of the transporters to improve salt tolerance and potassium nutrition in crop plants.

Previous FP experience

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality

 *UNIVERSITY OF TURIN-DISAFI- TEAM POST-HARVEST TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT*

R&D Institution

*PROFILE from Italy
(14IT0052)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

The aim of the research team on "Post-harvest technology and supply chain management" is to improve the sustainability of the fruit and vegetable supply chain by optimizing their quality and shelf life through the use of post harvest technology. The driver of all research's activity is the adoption of innovation in the management of fruit production and process that can be able to fulfill sustainability criteria. Smart integration of multidisciplinary aspect such as physiological, safety, and instrumental and sensory quality measurement concepts is essential to develop the most effective handling procedures and innovative technologies for maintaining quality and shelf stability of fruit products. Most of research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

Main topics

1. Physiology and post harvest quality
2. Storage management and packaging systems
3. Fresh-cut physiology and storage
4. Edible coating
5. Sustainability in the supply chain

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Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project.

Expertise offered (related to the topic)

The team performs research on physiology and quality: By studying the metabolism of the products has been possible to model the physiological behaviour of species and new varieties introduced on the market throughout the supply chain according to the different crop management strategies and environment.

The team performs research on sustainability in the fruit and vegetable supply chain, starting from the stage of production. LCA methodology, sustainability indicators multi-criteria analysis are applied to the most important sectors of the fruit production to integrate according an olistic approach the traditional production processes with new technological innovations to face the targets of improving yield, yield stability and environmental benefits.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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■ ■ ■ 247

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0347)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

We count on several semi-industrial pilot plants for the use of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training courses and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

IDEALFOOD has led numerous projects to develop new strategies for improving crop productivity. In our experimental fields we have introduced new crops for the farmer from Andalusia region (e.g. *Stevia rebaudiana*). We have developed new technologies for monitoring ground dynamic.

Moreover, our experimental field are located in different soil and climatic condition areas and we work on with vegetables and fruits.

Taking into account the concept "multi-actor approach", IDEALFOOD can provide stakeholders interested in this topic, including SMEs and other companies. IDEALFOOD can provide partners from third countries.

IDEALFOOD can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Improving knowledge on complex plant-environment interactions and suitable combinations of genotypes and management practices.
- Increasing productivity and stability of agricultural sector through improved crop management strategies.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-5-2015: Strategies for crop productivity, stability and quality



*CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING
AND OLIVE OIL*

Technological Centre

*PROFILE from SPAIN
(14ES0375)*

TOPIC OF INTEREST

TOPIC

SFS-5-2015: Strategies for crop productivity, stability and quality

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

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c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the process of sustainable olive growing. Specific expertise in the topic is based in the following background and technological tools:

a. Application of NIR on-line technology for the detection of markers of fruit quality

b. Agronomic management techniques for olive orchards

c. Varietal studies in olive trees

d. Communication, dissemination and transfer of research results

e. Management and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

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FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain. Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

Partnership Profile

SFS-6-2014: Sustainable intensification pathways of agro-food systems in Africa

 *C.I.S.A.O. – INTERDEPARTMENTAL CENTRE OF RESEARCH AND COLLABORATION WITH SAHELIAN AND WEST AFRICAN COUNTRIES*

R&D Institution

*PROFILE from Italy
(14IT0053)*

TOPIC OF INTEREST

TOPIC

SFS-6-2014: Sustainable intensification pathways of agro-food systems in Africa

ORGANIZATION EXPERTISE

ENTITY PROFILE

C.I.S.A.O. – Interdepartmental Centre of Research and Collaboration with Sahelian and West African Countries To this centre belong researchers and professors of Departments of the University of Turin, Public Research Institutions and independents technical and teaching assistants.

The departments involved are:

- Department of Chemistry;
- Department of Economy “S. Cogneetti De Martiis”;
- Department of Agricultural, Forest and Food Sciences and Technologies;
- Department of Veterinary Sciences;
- Department of Geological Sciences;
- Department of Cultures, Politics and Societies.

Principal activities of the centre are the coordination of decentralized projects funded by the Piedmont Region in the 2000 in the programme “Fight against poverty and food security”. Every

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

year new projects develop different activities such as animal production, animal health, conservation of endangered breeds, agricultural productions, economics researches (cooperatives, women associations), environmental protection activities, etc. Moreover the centre has been involved in many other projects, such as the IAO Gender Project (Italian Foreign Ministry – DGCS), the UNI.COO. Project (University of Turin – Foundation of Casse di Risparmio del Piemonte), 4CITIESXDEV (Europeaid).

On October 2013 has begun the Higher Education Program EU-ACP titled R.U.S.S.A.D.E. (Network of Sahelian Universities for Food Security and Environmental Sustainability – FED/2013/320-115). The overall objective of the project is to mobilize knowledge and know-how to fight hunger and poverty and to increase environmental care in a sustainable development perspective, improving life conditions of the population and reducing the gender gaps in employment access and in sharing knowledge. The specific objective is to enhance higher education systems through Master courses to give technical, scientific and methodological bases to the students, allowing them to manage natural resources and to improve agriculture and food security with an multidisciplinary and interdisciplinary approach.

Expertise offered (related to the topic)

The main objective is the improvement of the conditions of life of the sub-Saharan populations and the eradication of extreme poverty and hunger. T

The opportunity of a multidisciplinary approach, even in a defined circle (i.e. a rural community), is really important because leaving from single and specific interventions it can support the others through the immediate transfer of the results of the various experiences. The single activities for the last decade are:

- monitoring and improving milk production (quantitative and qualitative controls) and animal nutrition in Niger (Toukounous Station) and in Burkina Faso (Groupement d'éleveur Ben Kadi – Bobo Dioulasso);
- conservation programme of the Somba cattle breed in the Atacora Region, North Benin (Boukombé and Natitingou);
- epidemiologic controls (infections and tick diseases) in the peri-urban area of Bobo Dioulasso, Burkina Faso, and in Mali;
- goat breed selection programme in S. Antao Island (Cape Verde);
- sanitary controls for a traditional cheese production in S. Antao Island (Cape Verde);
- use of natural insecticides in Sahel;

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- support to beekeeping in Niger, Burkina Faso and Mali;
- support to good management of garbage in Cape Verde, scholar educational programme;
- management of protected areas and natural parks in Senegal and Burkina Faso;
- support to women associations in Burkina Faso;
- support to farmer's associations and cooperatives in Senegal and Burkina Faso;
- recycling of plastic refusals in Niger.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

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City: Torino

Country: Italy

Contact person: Daniela Vismara

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E-mail: d.vismara@pie.camcom.it

Partnership Profile

SFS-6-2014: Sustainable intensification pathways of agro-food systems in Africa



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0054)*

TOPIC OF INTEREST

TOPIC

SFS-6-2014: Sustainable intensification pathways of agro-food systems in Africa

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



GENOSKAN A/S

SME

*PROFILE from Denmark
(14DK0055)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

GenoScan A/S possesses state of the art technology in Next Generation Sequencing as well as robotics to handle thousands of samples and analyse both sequence and genotype data. GenoScan A/S is the leading provider of genetic testing for domestic animals in Scandinavia. Receiving thousands of samples per month, GenoScan A/S has established the necessary logistics and informatics for handling both samples and data from very large projects.

Expertise offered (related to the topic)

Experience with genomic selection in domestic animals, genotyping by sequencing of various species.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - DIFFERENTIATED & BIOFUNCTIONAL FOODS**

R&D Institution

*PROFILE from Denmark
(14DK0056)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research fields:

Development of high quality milk with improved taste and stability

Control of milk composition by feed and breed

Variation in milk fatty acid composition

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - PLANT, FOOD & SUSTAINABILITY**

R&D Institution

*PROFILE from Denmark
(14DK0057)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research areas: Studies the relationship between root growth and nitrogen uptake. Works in horticultural systems under organic or conventional management. Here winter catch crops (cover crops) and the design of crop rotations play a major role to decrease leaching of nitrate and thereby increase the nitrogen use efficiency of the system. Her research is focused on the relationship between root growth and N uptake in deep soil layers. Some crops and catch crops extend roots to 1-2.5 m depth below soil surface. These deep roots may take up nitrogen at depth and can be used to reduce the leaching of nitrate from the deep soil layers to the groundwater. The work includes subjects such as root and crop physiology in relation to nitrogen uptake. The approach is laboratory and field experiments including the use of stable isotope ¹⁵N techniques for the study of N cycling, and of minirhizotrons for measurements of plant root growth. The crops in study have been deep rooted crops like white, Chinese and curly cabbage, carrot, beetroot, squash, as well as shallow rooted crops like rucola, sweet corn, potato, celeriac and leek. The catch crops and green manures include deep rooted like fodder radish, winter rye and salad burnet as well as shallow rooted like ryegrass and birdsfoot trefoil.

In addition her studies the relationships between conditions during the growth phase and the quality of horticultural products; like harvest quality, sensoric properties and the content of substances of

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

importance for human health. The focus is on the importance of the genetic material, the availability of soil nutrients and suboptimal growth conditions for the quality of vegetables, e.g. the content of glucosinolates in cabbages, and the effect of UV-light exposure on the formation of vitamin D2 in mushrooms.

Expertise offered (related to the topic)

Importance of genetic resources (local and traditional cultivars) and growth conditions (nitrogen, phosphorous and sulphur fertilisers, irrigation, frost) for sensory and health properties of vegetable products. Cabbages, root vegetables.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

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FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

 **DEPARTMENT OF AGRICULTURAL AND FOREST SCIENCES**
R&D Institution
PROFILE from Italy
(14IT0058)

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Department of Agricultural and Forest Sciences has a complete profile in relation to all the research activity on agricultural basis. It has a long history in terms of teaching and researching in Agricultural Sciences. The Research Unit on Plant Biodiversity (RUPB) at the Department of Agricultural and Forest Science of the University of Palermo is focused on the study of plant biodiversity in Mediterranean agroecosystems, on its characterization and in situ/ex situ conservation, in vivo as well as in vitro. The RUPB is also dedicated to the development of best management practices to be adopted for a functional biodiversity use in order to value agrobiodiversity and to enhance farm productivity.

The RUPB has been and still now is involved in several research project related to the aspects derived from biodiversity traits.

By now, the RUPB leader is coordinating a Project funded by UE through the Regional Government aiming to build a Center of Conservation for Regional Biodiversity in connection with the European ones.

Expertise offered (related to the topic)

The RUPB offers wide skills in biodiversity estimation, plant taxonomy, plant characterization, local varieties characterization, rural areas management, best practices configuration, related statistical

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

analysis. Moreover, an experience in national and international projects is available including UE projects. The RUPB has also participated at the Governmental Work for licencing the National Guidelines for in situ/ex situ conservation and characterization of vegetative, animal and microbic biodiversity (2012).

Previous FP experience

PSR 2007/2013 - Action 214/2 - A: Conservation of Biodiversity (Contract number: 94750773338)

Role in the project

Research; Training; Tech. Development; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN (ASG member) / EEN BRIDGECONOMIES

Organisation name: Unioncamere Piemonte (ASG member)/ Consorzio Arca Palermo

Address: Via Cavour 17 (ASG member) / Viale delle Scienze

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Country: Italy

Contact person: Daniela Vismara (ASG member) / Anna Sangiorgi

Telephone: 0039 011 5669239 / 0039 091 6615611

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E-mail: d.vismara@pie.camcom.it (ASG member) / asangiorgi@consorzioarca.it

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



*GALICIAN INSTITUTE OF AGROBIOLOGICAL RESEARCH.
SPANISH NATIONAL RESEARCH COUNCIL. CSIC*

R&D Institution

*PROFILE from Spain
(14ES0059)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group, namely "Biotechnology of Woody Plants", belongs to the "Galician Institute of Agrobiological Research" (IIAG) of the Spanish National Research Council (CSIC). It is located in Santiago de Compostela (Northwest Spain).

We have large experience in the propagation and germplasm preservation of woody species as well in biochemical, cellular and molecular analysis of their developmental processes. Besides basic approaches studied through national and regional projects, applied biotechnological aspects have also been developed through collaboration with companies.

Related Projects:

- INTEGRACASTANEA: Vertical integration project on chestnut: from breeding to final products. FEDER-INNTERCONECTA 2013-2014.
- Characterization of chestnut genes involved in morphogenetic processes related to clonal propagation of selected trees. 10 MRU400033PR. 2010-2013.
- Large-scale biotechnological production of improved materials for chestnut breeding. 09MRU016E. 2009-2012.

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- Biotechnology applied to forestry production. Somatic embryogenesis in mature materials of chestnut, oak and beech. Genetic transformation. 9MRU002400PR. 2009-2012.
- Functional analysis of GRAS genes during adventitious rooting of forestry species. AGL2008-05105-C02-02. 2009-2011.
- Development of liquid culture systems for genetic transformation of embryogenic lines of *Quercus robur*. CSIC. PIE 200940I011. 2010.
- In vitro propagation of *Croton lechleri* Muell-Arg for sustainable management in Ecuador. A/013564/07. 2008-2009.
- Non-hormonal Compounds and Signalling Pathways for the Improvement of Adventitious Rooting in Forest Species. Integrated Action Italy-Spain. 2008-2009.
- Somatic embryogenesis in mature oak; basic aspects regarding its induction. Genetic transformation. AGL2006-01387. 2006-2009.
- Biotechnology applied to forestry production. Genetic transformation of chestnut, poplar and birch. AGL2005-00709. 2005-2008.
- Propagation and germplasm preservation of oak selected genotypes by somatic embryogenesis and cryopreservation. PGIDT03RF040001PR. 2003-2006.

Expertise offered (related to the topic)

1) Ex situ germplasm preservation of fruit and forest trees:

- 1.1) In vitro culture of adult material of selected genotypes by axillary shoot formation and somatic embryogenesis.
- 1.2) Medium-term storage by slow growth techniques.
- 1.3) Long-term storage by establishment of cryopreserved gene banks of selected genotypes.

2) Large-scale production of selected trees by micropropagation: establishment, proliferation in semisolid and liquid medium (bioreactors), rooting and acclimation.

3) Identification of valuable germplasm of local varieties of fruit trees from Northwest Spain: phenotypic and genotypic characterization and evaluation of sanitary status.

4) Genetic expression in woody plants: genes related to plant development and defence mechanisms.

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Previous FP experience

Proposal participation:

- Comparative and functional forest genomics for abiotic stress, adaptation and productivity. Collaborative Research Program Spain-Canada 2004

Actions COST:

Action 822: Development of integrated systems for large-scale propagation of elite plants using in vitro techniques. 1994-1999

Action G4: Multidisciplinary Chestnut Research. 1997-2001

Action 843: Quality Enhancement of Plant Production through Tissue Culture. 1999-2004

Action E-28: GENOSILVA: European Forest Genomics Network. 2002-2006

Action COST FP0905: Biosafety of Forest Transgenic Trees: Improving the Scientific Basis for Safe Tree Development and Implementation of EU Policy Directives. 2010-2014

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



GROUP OF GENOMIC MEDICINE. UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

*PROFILE from Spain
(14ES0060)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Group of Genomic Medicine at the University of Santiago de Compostela (<http://www.xenomica.org/>), it's a joint venture of researchers from the Population and Forensic Genetic group of the USC and researchers of the Galician Foundation of Genomic Medicine. This is a support organization of the health service of Galicia (SERGAS) offering a clinical genetics service (both molecular and cytogenetic analysis) to all hospitals in the SERGAS network comprising 3.5 million inhabitants. FPGMX is one of the foremost clinical genetics support organizations in Spain, offering one of the highest volumes of throughput and one of the most extensive arrays of molecular diagnostic tests for inherited diseases. Major lines of investigation from 2000 to date comprise genetics of complex disease, genetics of breast and CRC, pharmacogenetics, populaton and evolutionary genetics.

Integrated within the group is the Santiago node of the National Genotyping Centre. The aim of the centre is to offer high-throughput SNP analysis and to facilitate the statistical analysis and bio-informatic tools for SNP selection in association and linkage studies and for post-genotype analysis. The Center has different high-throughput genotyping platforms: Affymetrix, Illumina, Sequenom MALDI-TOF MS and AB SNPLex oligo ligation assay.

Expertise offered (related to the topic)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Genotyping platforms, platform leaders and technicians that provide the methods and strategies for molecular diagnosis of genetic diseases and genotyping methods, make the mass analysis of SNPs for association studies, sequence and ultrasequence for genetic diagnosis and research and quantify gene expression by RT-PCR. Since their beginnings in 2003, CEGEN has supported more than 3000 researches and has provided service to almost 2000 R&D projects from almost all of the most important spanish centers where human research is being carried out.

Previous FP experience

Denominación del proyecto: ELIX: The Human Early-Life Exposome – novel tools for integrating early-life environmental exposures and child health across Europe

Referencia: FP7-308333

Entidad Financiadora: European Commission

Duración: 2013-2017

Denominación del proyecto: EUROFORGEN-NoE

Referencia: FP7- FP7-285487

Número de investigadores/as: 28

Entidad/es financiadora/s:European Commission

Fecha de inicio: 2011

Fecha fin: 2016

Denominación del proyecto: Sharing capacity across Europe in high-throughput sequencing technology to explore genetic variation in health and disease (GEUVADIS) Referencia: FP7-261123

Número de investigadores/as: 28

Entidad/es financiadora/s:European Commission

Fecha de inicio: 01/10/2010

Fecha fin: 30/09/2013

Denominación del proyecto: Genetic study of common hereditary bowel cancers in Hispania and the Americas (CHIBCHA) Referencia: FP7-223678

Entidad/es financiadora/s:European Commission

Fecha de inicio: 18/09/2009

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Fecha fin: 2012

Denominación del proyecto: European Network of National Schizophrenia Networks Studying.

Gene-Environment Interactions (EU-GEI). Large Scale Integrating project Referencia: FP7-234560

Entidad/es financiadora/s: European Commission

Fecha de inicio: 01/07/2009

Fecha fin: 2012

Denominación del proyecto: High throughput analysis of single nucleotide polymorphisms (SNPs) for the forensic identification of persons (SNPforID) Referencia: G6RD-CT-2002-00844

Fecha de inicio: 01/12/2002

Fecha fin: 30/11/2005

Role in the project

Research; Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0061)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

Special interest in eliminating and/or masking of boar taint.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects. The institute is currently working on a project on processing properties of boar meat.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

Telephone: 0049 (0) 208 30004 51

Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



RESEARCH GROUP: "FISIOLOGÍA, BIOQUÍMICA Y TECNOLOGÍA DE ALIMENTOS VEGETALES" (AGR154)

R&D Institution

*PROFILE from Spain
(14ES0062)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Analytical, biochemical, and molecular research on fruits to progress in the knowledge of the processes determining the organoleptic and nutritional quality of fresh and processed fruits.

RESEARCH PROJECTS (LAST 12 YEARS)

- International, 3 such as:
  - Novas tecnologias pos-colheita para a qualidade e a segurança alimentar em citrinos
  - Modulation of aroma biosynthesis during grape ripening and drying for dessert wine
- National, 9 such as:
  - Generation of genomic tools in olive and application to the analysis of fruit and oil quality and agronomical traits
  - Biochemical and molecular aspects related to the metabolism of

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polyunsaturated fatty acids and phenolics

- Identification of biochemical and molecular determinants responsible for the virgin olive oil quality features

• Regional, 4 such as:

- Genomic, molecular, and biochemical approaches for the improvement of virgin olive oil quality

- Optimisation of postharvest technology for raspberry produced in Huelva province

• Private companies: 8 (virgin olive oil, fresh and processed strawberry)

Expertise offered (related to the topic)

The aim of the research group of Biochemistry and Technology of Plant Foods of the Instituto de la Grasa (CSIC) is the characterization of the biosynthetic pathways of the components that determine the organoleptic and nutritional quality of plant foods, the assessment of changes going on during processing and conservation, and the development of technologies to improve the quality of the food. The main applications are related to:

• Modulation of processing conditions for improving virgin olive oil quality.

• Production of enzymes to enhance the organoleptic and nutritional quality of virgin olive oil.

• Use of bioactive compounds to improve the quality of plant foods.

• Identification of biochemical and molecular determinants related to the quality characteristics of plant foods.

• Assistance in breeding programs. Selection of new cultivars with higher nutritional and organoleptic quality adapted to the growing area.

Previous FP experience

Participation in EU projects:

- Assessment of olfactory characteristics of olive oil by electronic sensing systems" (FA98-9540), FP5

- Development of biocontrol agents for commercial application against post-harvest diseases of perishable foods (QLK5-CT-1999-01065), FP5

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Novas tecnologías pos-colheita para a qualidade e a segurança alimentar em citrinos (Interreg IIIA Program), FP6

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



RESEARCH GROUP: "NUTRICIÓN ANIMAL" (AGR102)

R&D Institution

*PROFILE from Spain
(14ES0063)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research group (4 scientist) expert on nutrition and metabolism of native livestock species (pigs). The group has led about 15 national and regional research projects on this topic during the last years.

Expertise offered (related to the topic)

The group has expertise in defining strategies (nutritional or management) to improve productivity of native monogastric species (pigs). We can study aspects varying from performance, growth, carcass and organs development, heat production, nutrient/catabolite emission, nutrient retention from whole-body or tissue level. We can interact with groups covering genetic and meat quality aspects.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

 *UNIVERSITY OF TURIN-DISAFI- TEAM POST-HARVEST TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT*

R&D Institution

*PROFILE from Italy
(14IT0064)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

The aim of the research team on "Post-harvest technology and supply chain management" is to improve the sustainability of the fruit and vegetable supply chain by optimizing their quality and shelf life mainly through the use of post harvest technology. The driver of all research's activity is the adoption of innovation in the management of fruit production and process that can be able to fulfill sustainability criteria. Smart integration of multidisciplinary aspect such as physiological, safety, and instrumental and sensory quality measurement concepts is essential to develop the most effective handling procedures and innovative technologies for maintaining quality and shelf stability of fruit products. Most of research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

Main topics

1. Physiology and post harvest quality
2. Storage management and packaging systems
3. Fresh-cut physiology and storage
4. Edible coating

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

5. Sustainability in the supply chain

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

Expertise offered (related to the topic)

The team performs research on the sustainability of local (at the level of Piedmont Region) varieties products : LCA methodology, sustainability indicators multi-criteria analysis are applied to regional fruit and vegetable production to integrate the traditional production processes with new technological innovations to increase the added value (for the environment but also considering the socio-economic impact) from the production of local varieties.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0065)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

We have worked really hard to achieve a more sustainable agriculture (with the combination of the modernization of farms with the improve of the animal welfare), and to develop the extensive livestock systems or to increase the diversity and the friendly environmental practices.

In this line, we have to emphasize the success with the EU grants for to promote the friendly environmental practices, on promoting the organic farming and our collaboration in the protection and improvement of indigenous livestock breeds (95% of our farmers have indigenous beef breeds, the 80% of them sale their products through a quality local label and they can sale its products a 30% more expensive than its competitors).

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0066)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

TRAGSA is the matrix company of GRUPO TRAGSA, a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

TRAGSA has a wide experience in the conservation and management of genetic resources, mainly focused on species with a high economic value in different Spanish regions, such as *Castanea sativa*, *Pinus pinaster* or *Quercus suber*.

TRAGSA counts on adapted facilities for the development of biotechnology R&D activities, which include a lab for small-scale micro propagation of forest species, climatic chambers of in vitro culture and a transfer chamber, cryopreservation infrastructure and an ultra freezer for long shot conservation, industrial stoves as well as other small equipment for physiological measurements. In Addition, TRAGSA has extensive experience in the establishment, monitoring and control of experimental fields.

The company works jointly with different Universities and Technological Centers, and has strong links with the Public Administration and with private forest-based companies

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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Partnership Profile

SFS-7/2014-2015: Genetics resources and agricultural diversity for food security, productivity and resilience



COVAP

Large company

*PROFILE from SPAIN
(14ES0366)*

TOPIC OF INTEREST

TOPIC

SFS-7/2014-2015: Genetics resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

COVAP is the largest agroindustry cooperative in Andalusia and is one of the most important in Spain, founded in 1959. The business scope is mainly focused on dairy products, animal feed, and meat products: 1) milk, milk shakes, enriched milks, 2) sheep, cow and goat cheese, 3) Iberian Ham and sausages, and 4) Iberian pig, beef and lamb meats. COVAP has an integrated production system based on an eco-sustainable model.

Its pastureland uses rotational farming methods, meaning that the land is used to grow cereals for a period, and then used for livestock grazing. This kind of relationship between crop and animal farming is only possible due to a balance in the use of natural resources.

COVAP integrated production chain involves livestock, feeding, industrialization, commercialization and consumer (markets). The main advantage using this model is to have the control over the different steps till reach the end product and implement solutions from farm to fork. Each action at different levels will affect the rest in the chain, following up the quality and traceability of each end product. Moreover, COVAP has set up its own technical support service to get closer to members and to provide them with everything they need to improve their production conditions. A skilled team of professionals provides a highly personalised service to members by carrying out a lot of field work.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

There are now four main support areas: 1) Rural Engineering and the Environment, 2) Hygiene and Health, 3) Reproduction, and 4) Comprehensive Advisory Services to help members to take advantage with the support of Public Administration.

Expertise offered (related to the topic)

COVAP is a Cooperative with a strong tradition in rearing local breeds which are highly adapted to the natural environment: The Pasture. Those breeds are Retinta cattle for meat production, Merino breed of sheep and their derivatives and Murciano-Granadina goats for cheese making and the Iberian Pig which is fed with acorns during its fattening period, at the end of its cycle of life. Its derived products are meat, sausages and cured ham.

Previous FP experience

COVAP has participated in the following International Research Projects: BRIDGE Project (6th FP) where the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. Currently, COVAP is involved in a Research Project from 7th FP Called BIOFOS which attempt to develop a high-added value multi-analyte biosensor for quality control in food industry. Under the figure of EUREKA, COVAP is running the Project INFORMED, which addresses online monitoring & control of production in the meat processing industry. Moreover, COVAP has huge experience in developing research projects financed by its own resources and with National funding, in areas such as Food quality, Food safety, Animal Health Status and Production Improvement, or New Products/Processes Development.

Role in the project

Tech. Development; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience. A. [2014] Traditional resources for agricultural diversity and the food chain



CENTIV GMBH

SME

*PROFILE from Germany
(14DE0311)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience. A. [2014] Traditional resources for agricultural diversity and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance

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- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program)).

Expertise offered (related to the topic)

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

HighTech Europe: the first european network in food processing, www.hightech europe.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



RESEARCH GROUP: "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPPMENT" (AGR134)

R&D Institution

*PROFILE from Spain
(14ES0338)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

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- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

“Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación” (RZ00-00-017).

“Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción” (RZ04-00-013).

“Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible” (RZ-02-007)
PROGRAMA PILOTO INTEGRAL DE LA CALIDAD DE VACUNO EXTENSIVO DEL LITORAL DE LA JANDA.

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Presupuesto de ejecución: 100.000 euros. Asociación de Desarrollo Rural del Litoral de la Janda..
Vejer de la Frontera Cádiz

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:"
(RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y ecotipos" (RZ2004-00010-00-00).

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos de ovino lechero" (RZ2008-00021-00-00). We have taken part in several cooperation projects (PCI-AECID) in North Morocco about DANGR Conservation and Rural Development:

The research group has collaborated in the characterization of races of ruminants of Latin America (Araucanian sheep from Chile, Creole goat from Puebla and Chiapas(Mexico), Casanare Creole cattle from Colombia, etc.: "Estudio Integral del Sistema Agropecuario de Santiago el Pinar, Chiapas (código 06/IES/SNV/026/08)". Universty of Chiapas (SIINV-UNACH 2008). PROYECTOS DE LA AECID : " ENCUENTRO PARA LA COOPERACIÓN CONJUNTA EN EL MEJORAMIENTO DE LOS SISTEMAS DE PRODUCCIÓN PECUARIA PROMOVIDOS POR MUJERES EN EL ÁMBITO DEL DESARROLLO RURAL" en la región de Chiapas (México)"PRODUCCIÓN GANADERA SOSTENIBLE EN CONDICIONES TROPICALES Instituto de Investigaciones Agropecuarias Jorge Dimitrov y Estación de Investigaciones de pastos y forrajes de la provincia de Granma". Cuba. 1998. "Marca de Calidad Integral para los productos agrarios del Norte de Marruecos". Agencia Andaluza de Cooperación Internacional. 300.000 euros. 2008.

Research on different areas on Quality of Mental health care.

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.

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- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Previous FP experience

EC-GA N°261459. Research on Financing systems' Effect on the Quality of Mental health care (REFINEMENT). VII Framework Programme. 2011-2013.

INTERREG III-C sud PASTOME1. Object: Knowledge of livestock labours in Mediterranean Region(Greece, Italy, France, Spain and Portugal).

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0348)*

TOPIC OF INTEREST

TOPIC

SFS-7-2014/2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

We count on several semi-industrial pilot plants for the use of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training courses and we have supported the creation of 14 high-tech SMEs in our incubator.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

IDEALFOOD has led numerous projects to develop new strategies for improving crop productivity. In our experimental fields we have introduced new crops for the farmer from Andalusia region (e.g. *Stevia rebaudiana*).

Moreover, our experimental field are located in different soil and climatic condition areas and we work on with vegetables and fruits.

Taking into account the concept "multi-actor approach", IDEALFOOD can provide stakeholders interested in this topic, including SMEs and other companies IDEALFOOD can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Improving in-situ/on farm management and evaluation of genetic resources by the farming sector.
- Promotion of traditional and/or underutilised crops
- Boarder adaption of livestock and cultivated plants to limiting or changing agro-climatic conditions.
- Enhancing methodologies for management, conservation, characterisation and evaluation of genetic resources.
- Engagement of end-users.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAF00N. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

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Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-7-2015: Genetic resources and agricultural diversity for food security, productivity and resilience



CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING AND OLIVE OIL

Technological Centre

*PROFILE from SPAIN
(14ES0376)*

TOPIC OF INTEREST

TOPIC

SFS-7-2015: Genetic resources and agricultural diversity for food security, productivity and resilience

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

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b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the process of sustainable olive growing. Specific expertise in the topic is based in the following background and technological tools:

a. Economic studies of farming management

b. Agronomic management techniques for olive orchards

c. Varietal studies in olive trees

d. Communication, dissemination and transfer of research results

e. Management and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain. Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



AGROTECH

Technological Centre

*PROFILE from Denmark
(14DK0067)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

AgroTech is a non-profit research and innovation institute working with technologies for the agricultural sector and food sector. We participate in research, development and demonstration projects supported by public funds. Moreover, we deliver independent test and documentation of new technologies and research-based consultancy related to the development of new technologies. In our work we pay special attention to small and medium-sized companies but we cooperate with companies of any size and any nationality. Environmental technologies for a cleaner agricultural production is one of five core fields of expertise in AgroTech.

Expertise offered (related to the topic)

AgroTech offers expert knowledge in technologies to reduce pollution caused by intensive livestock production systems. This includes expertise within development and demonstration of technologies for reduced emissions of ammonia, odour, and greenhouse gases from livestock production. In addition, AgroTech has experience within development and demonstration of technologies for improved handling of manure including biogas and gasification technologies. AgroTech also carries out test and environmental technology verification (ETV), which is an independent third party assessment of environmental technologies – e.g. cleaning of air from livestock buildings, sensor technologies, slurry additives, slurry separation, and biogas generation.

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

AgroTech was coordinator in a FP6-project called "AGROBIOGAS - An integrated approach for biogas production with agricultural waste". It was a 3-year Collective Research project with 24 partners from 10 European countries. Total budget amounted to 2.8 million EURO. In addition to AGROBIOGAS, AgroTech has experience from participation in EU projects under the Intelligent Energy Europe-programme and the Interreg-programme.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

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Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0068)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



FOUNDATION OF AUXILIARY INDUSTRY OF AGRICULTURE, TECNOVA FOUNDATION

Technological Centre

*PROFILE from Spain
(14ES0286)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

Postharvest and Packaging Technology

Postharvest consulting

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Advice regarding the implementation of the APPCC system.
- Optimisation and monitoring of food quality management systems.
- Innovation studies on agro-industrial processes (preservation, transport conditions etc.)
- Market research (new products, trends etc.).
- Electronic fruit: determination of major points of impact during handling and design optimisation.
- Studies on respiration rates (metabolic study on plants).
- Characterisation of varieties.

Non-destructive analysis techniques

- Measurement of biofunctional compounds in fruit and vegetable products.
- Characterisation of diverse attributes of fruit and vegetable products and in real time.
- Calibration and validation of quality parameters in fruit and vegetable products using NIT technology ($^{\circ}$ Brix, pH, firmness, moisture, etc).

Packaging studies

- Product shelf life: microbiology and sensory quality.
- Optimization of packaging conditions.
- Modified atmosphere evolution inside containers for fresh and ready prepared products.
- Physical-chemical parameter evolution: texture, colour, firmness, etc.
- Biofunctional compound evolution.
- Nutritional composition evolution.

Ready-prepared and ready-cooked products.

- Establishing shelf life.
- Microbiological control.
- Nutritional composition.
- Packaging optimization.
- Intelligent packaging.
- Labeling studies.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



DTU FOOD

Technological Centre

*PROFILE from Denmark
(14DK0069)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Center for Hygienic Design (CHD) at the Technical University of Denmark (DTU) aspires to participate closely with research organisations and companies in research and development projects. In addition, the center offers consultancy in trouble-shooting and problem-solving in the food and biotech industry, and assists in testing and development projects within the scope of the center. Furthermore, the center contributes to the master research programme Food Technology and offers predefined or tailor-made courses in hygienic design.

Expertise offered (related to the topic)

Hygienic design and certification of process equipment can greatly help to reduce the environmental impact. Less water, chemicals, time and energy are used by the use of hygienically designed equipment. Moreover, it lasts longer, and therefore should be serviced, repaired and replaced less often.

Center for Hygienic Design is open to a wide range of projects within research, education and consultancy. Whether you represent a manufacturer of process equipment interested in certification according to EHEDG guidelines or you are looking for a qualified partner for projects in relation to hygienic design, we are ready to assist and consult you in the development of hygienic solutions.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The center offers test for cleanability and hygienic design of process equipment, examination of production facilities to minimize and prevent cross-contamination of the food product, and targeted courses in hygienic design.

The center has extensive experience with microbiological test methods, handling of difficult-geometry equipment and has for number of years dealt with CFD and evaluation of surface roughness and food contact materials. The center is located in a research environment and combines practical and theoretical knowledge from many disciplines and institutes.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

 **FOOD PROCESSING INITIATIVE E.V.**

SME

*PROFILE from Germany
(14DE0070)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food-Processing Initiative (FPI) e.V. (membership association) is the established networking organisation for food industry (i.e. producers, technology, ingredients, packaging, IT solutions) and research. FPI facilitates innovation in product, technology and knowledge, and opens up new markets. FPI is engaged in national and international innovation projects, delegations and matching events.

Expertise offered (related to the topic)

Creating Contacts – Pooling Potential – Opening Opportunities

FPI, founded in 2000, is an acknowledged network in the food sector. FPI supports food companies, in particular small and medium-sized enterprises (SME) on innovation, strategic alliances, market potentials and expansion. FPI fosters communication, provides information, establishes contacts across the food chains, initiates and supports all forms of co-operation and innovation projects, resource efficient processes in food production and dissemination and exploitation strategies, both national and international.

Previous FP experience

FPI e.V. has participated in several EU projects fostering innovation in the German food sector and promoting transfer of research results to the food industry. Project examples are the INTERREG projects FoodSpot, FoodFuture and FP7 project AgriFoodResults. FoodSpod is a collaborative

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

platform for cross-border innovation and cooperation in the food sector of the Netherlands, Flanders and North-Rhine Westphalia. AgriFoodResults provides useful tools for dissemination managers of food research projects, including a virtual supermarket which provides food SMEs an intuitive access to the results of past EU R&D projects.

Role in the project

Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



HERAL ENOLOGÍA, S.L.

SME

*PROFILE from Spain
(14ES0071)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Heral Enología, S.L. is a spin-off from University of Extremadura devoted to biotechnological RTD, microorganisms production and commercial lab, specially in the agrifood sector. The two promoters have university degrees in Chemistry and Enology and they both have worked in enological advice since 1999.

Heral Enología carries out RDT for the characterization and isolation of the microorganism involved in agrofood industrial processes, specially yeasts. The company offers to clients exclusive collections of microorganisms, as well as their production at industrial scale to be used as part of their processes. Besides the company has a collection of selected and characterized microorganisms.

Some of the projects they have developed in the last years are the following ones:

- Use of ultrasound to improve cava aging
- Composting of organic waste
- Modifying of olive seasoning process to use bleach waste as fertilizer
- Use of cheese whey to produce probiotics for animal feeding.
- Selection of yeasts for ecological wine production

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

One of the lines of research they recently have implemented is the revalorization of waste products from grape and vineyards to develop new products for animal feeding.

Expertise offered (related to the topic)

The company is currently involved in projects related to the revalorization of wine by-products in order to develop new feed products for livestock in order to upgrade vineyard waste. The company is interested in participating in projects related to the wine since the company has large experience in the sector. Heral Enología has a wine laboratory and they work as advisor for companies in Extremadura (southwest of Spain). In addition the company has more than hundred wineries as clients in Spain and Portugal.

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



LABORATORIOS AGL

SME

*PROFILE from SPAIN
(14ES0072)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

LABORATORIOS AGL is a laboratory that operates in the food, pharmaceutical, cosmetic and nutraceutical field under the most stringent quality standards such as ISO 17025 and GMP

The company has suitable equipments and materials to offer companies high quality services and products. Since the establishment of the R&D department the company has experienced a substantial evolution, through the incorporation of new lines of work.

Due to the fact that the sector in which they work is very wide, Laboratories AGL have different specialised departments:

-Inorganic Lab: Soil analysis, leaf analysis, fertilizer analysis, mud analysis, animal feed analysis.

-Organic Lab: Fatty acids analysis, pesticides analysis (accreditation by ENAC), vitamins analysis, mycotoxins, BTEX and PAHs analysis, preservatives and food additives analysis and active principles of plants analysis .

-Microbiology Lab: Water analysis (irrigation water, sewage, legionnaire's disease), food analysis, surface analysis, environment analysis, cosmetic analysis and toxin analysis. (Acreditation ENAC)

-Quality Department

-Pharmaceutical Department

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

-I+d+i Department

Expertise offered (related to the topic)

Experienced researches of the company develop projects related to the following research focus:

- determination of oils and oil cosmetics through gas chromatography
- determination of fatty acids in water and oils
- determination of pesticides, mycotoxins and other organic contaminants in food and feed.
- determination of organic contaminants in drinking water by microextraction in solid phase subjected by gas chromatography
- determination of trace level food composition (minerals, vitamins, preservatives and additives).

One of the most relevant topics for the company is the food quality and food safety control. Nowadays, innovation in health is one of the strategic line of work for the company. LABORATORIOS AGL has a very close working relationship with a wide number of farmers, stockbreeders and pharmaceutical companies. Likewise, their daily work allows them to know the real needs on the agrofood and pharmaceutical sector. They have experience in regional and national projects therefore they have enough technical and human resources to join in European projects, contributing with added value derived from their daily activity.

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0073)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



QUEIZUAR

SME

*PROFILE from Spain
(14ES0074)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Queizuar is an SME, created in 1997 that produces traditional PDO cheese. It is located in Galicia the leading milk producer region in Spain, with approximately 55% of the Spanish dairy farms.

Nowadays, Queizuar-Bama processes 50.000 litres per day, producing 3 types of cheese: Arzua Ulloa Protected Denomination of Origin, Tetilla Protected Denomination of Origin and Fresh cheese.

Queizuar has been working in 5 R&D projects during the last 7 years:

1-"Estudio das alteracións superficiais aparecidas na produción de queixos das denominacións de orixe Tetila e Arzúa-Ulloa" (Study of surface alterations appeared in the production of PDO cheeses: Tetilla and Arzúa-Ulloa) – PGIDIT05TAL011E (Xunta de Galicia – Spain) – (2005-2008)

2-"Valorización dos soros de queixería mediante a produción de ingredientes alimenticios funcionais e produción de bioetanol" (Cheese whey valorization through the production of functional food ingredients and bioethanol) – PGIDIT07TAL006E (Xunta de Galicia – Spain) – (2006-2008)

3-"Obtención dun preparado lácteo funcional a partir dos soros de queixería" (Obtaining a Functional Dairy prepared from cheese whey) – PGIDIT09TAL002E (Xunta de Galicia – Spain) – (2008-2010)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

4- "Valorización dos soros de queixería mediante a produción de bioetanol" (Cheese Whey valorization through bioethanol production) – PGIDIT09REM001E (Xunta de Galicia – Spain) – (2008-2010)

5- "Valorización do soro de leite mediante a produción de bioetanol e dun novo produto con propiedades anti-hipertensivas" (Cheese whey valorization by producing bioethanol and a new product with antihypertensive properties) – FEADER 12/11 (Xunta de Galicia – Spain) – (2012-2013)

Expertise offered (related to the topic)

Queizuar is aware with the environment and sustainability, and its last four R&D projects are focused on reducing its fossil fuel consumption and reducing the cheese whey impact on the environment. Continuing with the effort of the company to contribute to low resources consumption Queizuar would work in future projects related with environment and sustainability.

Previous FP experience

Queizuar presented since 2011 three european projects as coordinators (2 Eurostars and 1 KBBE) and one KBBE project as partners. The last one has been elected to be financed by the EU, and it began the last 1st of November.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0075)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



SIGMA BIOTECH, S.L.

SME

*PROFILE from SPAIN
(14ES0076)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Sigma Biotech offers a wide range of services focused on developing innovative agri-food projects, thanks to a multidisciplinary team that meets the needs of R & D firms adapted to the food sector.

Experts on solving specific needs, medium-term undertaking projects and engage in strategic plans that lead to the development of a variety of food products that are launched in the market by implementing innovative new food technologies. DESIGN AND DEVELOPMENT OF NEW PRODUCTS.

CHARACTERIZATION OF FOOD.
ADVICE AND MANAGEMENT IN THE PREPARATION OF REPORTS AND PRESENTATION OF GRANTS AND SUBSIDIES FOR R & D BOTH AT REGIONAL, NATIONAL AND EUROPEAN. FUNDING I + D + i

Sigma Biotech collaborates with public and private agencies, offering full management for companies to successfully access to existing financial aid for the development of R + D + i, taking place from document management to technical development so integrity.

Our successes behind us. Some of the projects that your team works are:

-New range of spirits alcoholic dairy adjustable solidified .

-Development new range of soft drinks based on modifications of thixotropy, surface tension and the use of colloidal suspensions .

-Systems emulsifiers based on fatty no additive for stabilizing batters .

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- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .
- New range of products consist of multilayer restructured quince and dairy .
- New range of soft drinks based on natural products.
- New range of oilseeds with different wall mounts .
- Textured products from natural raw materials.
- Enzyme Systems fermented bread with no thermal activation of yeast.
- Chromatic flavored alcoholic beverages , based on the ionization of anthocyanins by acid-base shift .
- Ice high melting point surfactant systems based on the reduction of interfacial surface tension.

Expertise offered (related to the topic)

TECHNOLOGICAL SOLUTIONS

Sigma Biotech is specialized in optimizing production processes and manage technology solutions products, both for improving the same as for the correction of any physical alterations chemical, microbiological, organoleptic , rheological ...

The methodology conducted by Sigma Biotech for the development of a project is based on a clear philosophy: to accompany the client at all stages of the same , from idea generation until memory document management , technical development laboratory scale and industrial location :

- Visit the customer premises, thereby acquiring much information as possible and thus facilitating the development of the project.
- Signing a confidentiality agreement between the parties, ensuring the utmost privacy possible.
- Writing a previous projec , based on the research that is to be carried out , for review by the customer and making the appropriate adjustments .
- Presentation of a final draft . Document management into CDTI presentation or in the appropriate body .
- Confirming the proposal and the budget and signing the contract.
- Technical development laboratory and pilot scale and industrial location .
- Memory Presentation results and relevant technical justification to the appropriate body .
- Sigma success Biotech acceptance works if technical report presenting a funding agency, if it is rejected , the customer does not acquire any financial commitment or technical .

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Previous FP experience

TECHNOLOGICAL SOLUTIONS

Sigma Biotech, despite being a newly established company , is working in R & D with major companies in the sector in Spain . Currently , is involved in many interesting projects that are giving more interesting conclusions for the future of the industry agroalimentaria . Some of the major projects in which your team works are:

- New range of spirits alcoholic dairy adjustable solidified .
- Developing new range of soft drinks based on modifications of thixotropy , surface tension and the use of colloidal suspensions .
- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .
- New range of soft drinks based on natural products.

Enzyme Systems fermented bread with no thermal activation of yeast.

Chromatic - alcoholic flavored drinks , based on the ionization of anthocyanins by acid-base shift .

Ice - melting high surfactant systems based on the reduction of interfacial surface tension

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

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Country: Spain

Contact person: Cristina Cabeza

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E-mail: cristina.cabeza@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



**AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE
DIFFERENTIATED & BIOFUNCTIONAL FOODS**

R&D Institution

*PROFILE from Denmark
(14DK0077)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research activities in Aarhus University's Department of Food Science encompass the entire food chain from field to fork, as well as the health-promoting properties of foods and food constituents.

The Department of Food Science possesses leading capabilities and resources, as well as active national and international networks, and is therefore able to make significant contributions to current food-related global challenges: food supply, food wastage, sustainable food production under changed climatic conditions, and increased occurrence of lifestyle-related diseases. Additional focus areas include food quality, differentiation of foods, and novel, convenient and healthy foods.

Most of the research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

The research creates basic and application-oriented knowledge on animal and plant-based food products and promotes a sustainable and safe food production with regard to food supply, consumers, industry and current legislation.

The five science teams:

Plant, Food and Sustainability - Plant, Food and Climate - Differentiated and Biofunctional Foods - Food Chemistry and Technology Food - Metabolomics and Sensory Science.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

The science team leader is engaged in research in meat quality including responses/status of the live animals prior to slaughter affecting processes post mortem when muscle is turned into meat. Areas of special interest include oxidative status, stress, metabolically active compounds, and plant metabolites.

She carries out animal experiments combined with model systems of e.g. primary culture cells to investigate mechanisms related to the focus areas.

Presently she works on two projects investigating 1) mobility of water in relation to water holding capacity, including effects of creatine supplement and 2) effects of plant metabolites on cellular stress. The science team's activities focus on how to improve product quality, add new positive features to well-known food products or develop new types of food product.

The topics include evaluation of product quality parameters such as the tenderness of meat and the taste of vegetables, fruit and milk, and bioactive and nutritionally important constituents of meat, dairy and plant products. The team's activities also include new ways of producing foods such as in vitro meat or vertical farming systems, as well as the exploitation of plant medicines and plant-produced pesticides.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



*AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE
DIFFERENTIATED & BIOFUNCTIONAL FOODS*

R&D Institution

*PROFILE from Denmark
(14DK0078)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research fields:

Development of high quality milk with improved taste and stability

Control of milk composition by feed and breed

Variation in milk fatty acid composition

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Contact person: Anders Skeem

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

 *ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES*

R&D Institution

*PROFILE from Germany
(14DE0079)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Insitute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and develepmnt projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department for Meat Technolgy has special interest in sustainability activities in the meat production chain including mechanically separated meat.

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produces from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

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E-mail: na@zenit.de

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



KIN FOOD INSTITUTE

R&D Institution

*PROFILE from Germany
(14DE0080)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our service for the food industry:

For 45 years, we serve our members and customers as the competent and successful one-step service provider in the fields quality assurance, research & development, seminars and technical school. With this, we are unique in Europe.

Our work focuses on product safety, high quality food products and further education for the food industry. The objective of KIN Food Institute is to implement existing knowledge and latest research findings into product development and food analysis so that the quality features of the competitive products provided by our member companies offer the consumers a clear advantage. The further development of practical skills of food technicians and other employees in the food industry ensures a reliable longterm economical success for the enterprises.

Our about 300 member companies take advantage of many member benefits. The membership reflects their commitment to the future of the food trade.

Expertise offered (related to the topic)

Research and Development: Preservation, Product development, Process engineering, Packaging, Extrusion, Minimal Processing

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Quality assurance: National and international food law, Hygiene management, HACCP concepts, Chemistry and microbiology analysis, Sensoriy quality

Previous FP experience

- *Process inspection and development of Cooked and Chilled Food
- *Production and cooling of boiled sausages e.g. product-related package in a controlled enviroment: Basics, boiled sausages sliced, cooling and package
- *Exploration of manufacturing technologies for convience food suitable for microwave
- *Determination of new sterilization parameters to optimize the quality of wet canning based on current knowledge for vegetables, meat and ready meals
- *NIR-MAP combination method to extend the shelf life of foods (boiled sausages) using direct IR surface sterilization and protective gas package with modified radiation geometry

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: 150382-*01

Organisation name: Investitionsbank Schleswig-Holstein

Address: Fleethörn 29-31

Postcode: 24103

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Country: Germany

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



TECHNOLOGIES FOR INDUSTRIAL BIOPRODUCTS
DEVELOPMENT UNIVERSITY OF SANTIAGO DE
COMPOSTELA

R&D Institution

*PROFILE from Spain
(14ES0081)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

TIBD from University of Santiago de Compostela was created by joining two groups, the first one with a wide experience regarding the research of the extraction of flavonoids and other polyphenols from plants and bioactive components from seaweeds, the second one with a wide experience in drying processes, food rheology and research on gluten-free dough. The main research topics are the development of ultrasound-assisted processes for seaweed extraction of bioactive components, preparation characterisation of gluten-free dough, convective drying and the characterization of starch-based functional foods including extracts from plants and seaweeds.

Previous projects that define our expertise are the following :

"Technological flair for the industrial processing of gluten-free flour doughs. Additives and Thermomechanical and Rheological characterization." CTQ 2010-15309/PPQ. Ramón Felipe Moreira Martinez. National Grant. 01/2011-12/2013.

"Obtaining of algae liquid extracts from Galician coast resources as an added value product to be used in agriculture and cosmetics". PGIDIT10MMA007CT. Jorge Sineiro Torres. Regional Grant. 08/2010-09/2013.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

"Evolution of the physical-chemical properties of systems with high content of starch obtained in osmotic-convective drying processes and rheological characterization of the mixture with water." National Grant. Ramón Felipe Moreira Martinez. CTQ 2007-62009/PPQ. 08/2007-08/2010

"Obtaining of taylor-made proanthocyanidinic fractions for grape marc and other subproducts." María José Núñez García. National Grant. AGL-2006-1210-C03-03. 10/2006-09/2009.

Expertise offered (related to the topic)

Our experience is oriented to obtaining functional starch-derived foods by extraction of bioactive compounds from seaweeds to be applied gluten-free fortified dough, which can be studied at all stages of processing, from flour preparation to cooking.

Our facilities include pilot-plant ultrasound processing unit DrHielsher, two convective pilot-plant dryers, rheometer for dynamic rheology Anton Paar, rotary and capillar viscometers, micronizer Retsch, surface tension measurement Lauda, Mixolab unit for preparing and charactrisation of dough, climatic chamber Angelonni 250, two gel filtration preparative columns (7x100 cm), UV detector for chromatography columns, chromatography A/D converter and software eDAQ, fractions collector Bio-Rad, Freeze Dryer FTS Kinetics EZDry, ultrafreezer New Brunswick, rotary incubator New Brunswick Innova40, HPLC Jasco, spectrophotometer Jasco UV530.

Previous FP experience

Jorge Sineiro participated in OLNOCO Project from IV Framework Programme, which was developed by Universidad de Santiago de Compostela (coordinator, Spain), Universidad Catolica de Valparaiso, Intituto de Biotecnología (UNAM , Mexico), Universidade do Porto (Portugal) and Universidad de Vigo (Spain).

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

Contact person: Jana Vavrinová

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM & FOREST	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

 *UNIVERSITY OF TURIN-DISAFI- TEAM POST-HARVEST TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT*

R&D Institution

*PROFILE from Italy
(14IT0274)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The aim of the research team on "Post-harvest technology and supply chain management" is to improve the sustainability of the fruit and vegetable supply chain by optimizing their quality and shelf life mainly through the use of post harvest technology. The driver of all research's activity is the adoption of innovation in the management of fruit production and process that can be able to fulfill sustainability criteria. Smart integration of multidisciplinary aspect such as physiological, safety, and instrumental and sensory quality measurement concepts is essential to develop the most effective handling procedures and innovative technologies for maintaining quality and shelf stability of fruit products. Most of research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

Main topics

1. Physiology and post harvest quality
2. Storage management and packaging systems
3. Fresh-cut physiology and storage
4. Edible coating

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

5. Sustainability in the supply chain

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

Expertise offered (related to the topic)

1-The team perform research on Physiology and post harvest quality: By studying the metabolism of the products has been possible to model the physiological behaviour of species and new varieties introduced on the market throughout the supply chain according to the different cropping and storage systems adopted. Non-destructive techniques (NIR spectroscopy and gas chromatography) are pulled alongside the traditional monitoring techniques to search and identify specific quality indicators throughout all phases of the value chain, with particular attention to the evolution of nutraceutical components and the "wishes" of the final consumer.

2 - Storage management and packaging systems: Emerging critical aspects of postharvest along the supply chain are managed for each product fruit by controlling and integrating parameters of temperature and humidity on the composition of the atmospheres of the different storage environments. The study of active and passive MAP systems has allowed us to extend the shelf life and marketability of products with high perishability. . About our research on packaging we have studied innovative and sustainable packaging materials (films, trays, nets, baskets) that can add value to the post harvest products and processes.

3 - Fresh-cut physiology and storage: minimally processed fruit have shorter shelf life and high perishability than the whole counterparts because they are more sensitive to enzymatic browning and tissue softening; so it is necessary to combine the action of different substances with refrigeration, packaging and atmosphere (active and passive MAP) in order to preserve the visual quality of fresh-cut fruit. The prevention of enzymatic browning and loss of firmness is achieved using dipping treatments containing antibrowning agents such as antioxidants or acidulants, associated with different calcium treatments and different packaging (active and passive MAP).

4 - Edible coating: coatings on fruits (minimally processed or whole) create a semipermeable barrier to external elements that can reduce moisture loss, solutes migration, respiration and oxidative

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

reaction rates. Our studies regard different types of coating (vegetable or animal) and applications. The coatings can be associated with active substances (antimicrobials, antioxidants, maturation inhibitors) to improve and extend the shelf life of fruits.

5 - Sustainability in the post-harvest supply chain: LCA methodology, sustainability indicators multi-criteria analysis are applied to the most important sectors of the fruit production

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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Country: Italy

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

 **UNIVERSITY OF GASTRONOMIC SCIENCES/ SYSTEMIC FOOD DESIGN RESEARCH UNIT**

R&D Institution

*PROFILE from Italy
(14IT0290)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Gastronomic Sciences, founded in 2004 by the international non-profit Slow Food in cooperation with the Italian regions of Piedmont and Emilia-Romagna, is a ministerially recognized, private non-profit institution.

Its goal is to create an international research and education center for those working on renewing farming methods, protecting biodiversity, and building an organic relationship between gastronomy and agricultural science.

Relevant projects:

2010-2012 Poliedro , Pollenzo Index Environmental and Economics Design funded by Piedmont Region

2011-2013 Pollenzo's Index funded by Turin Commercial Chambre

2010-2012 People Interaction with Enhanced Multimodal Objects for a new territorial experience-Want-eat, funded by Piedmont Region

2012-2013 Systemic Food Design funded by Comieco

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Systemic design according the principle of circular economy to optimise food production, processing, commercialisation systems

Eco- Packaging (primary, secondary and tertiary)

Interaction with smart objects (App, augmented reality, QR code, App, website, Innovative Social Network)

Design of Eco-events

Previous FP experience

No previous experience

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0082)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

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Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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City: Tjele

Country: Denmark

Contact person: Anders Skeem

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0083)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

Arza is the advisory to many food businesses with diverse activities (milk and other dairy products , meat, canned vegetables, beekeeping, animal feed, liquor, etc) at its beginning and expansion nationally and internationally. In our advices, we promote the using of local products (covered by a quality label and they are made with techniques that respect the environment). We have extensive experience with the environmental impact studies, energy saving studies, critical analysis, waste management, market studies and with looking for market niches.

Previous FP experience

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

 **ORTOFRUIT ITALIA (PRODUCERS' ORGANISATION P.O)**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0084)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ortofruit is a producers' association which was founded in 2003 by farmers and business people both inspired by a willingness to innovate and work jointly in the Piedmontese fruit and vegetable market. An entrepreneurial challenge for 500 farmers coordinated by 15 member cooperatives reaching a total volume of sale of 20.000 tons. Thanks to accurate production, deep knowledge of final markets, flexibility and organization, nowadays Ortofruit Italia supplies the most prestigious chains in the Italian and foreign large distributors' markets, both with Private Labels and with the label Ortofruit Italia.

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise and demonstration offered on:

- quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest
- eco-sustainable packaging for fruit and vegetables
- efficient use of resources during the post-harvest chain of fruits and vegetables products
- knowledge on fruit and vegetable markets

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0349)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD is working on the application of innovative and effective strategies to improve the management of external inputs through several national and international projects. For example,

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IDEALFOOD is participating in "Resource efficient and Safe Food Production and Processing" RESFOOD project (www.resfood.eu) in which new technologies are being applied to achieve an efficient water, nutrients and energy management.

Our agronomic department has a large expertise in research related to greenhouse-based agriculture while our postharvest department has developed many project in order to improve shelf life, food security and quality of the products.

IDEALFOOD can offer:

Postharvest and Packaging Technology

Postharvest consulting

- Advice regarding the implementation of the APPCC system.
- Optimisation and monitoring of food quality management systems.
- Innovation studies on agro-industrial processes (preservation, transport conditions etc.)
- Market research (new products, trends etc.).
- Electronic fruit: determination of major points of impact during handling and design optimisation.
- Studies on respiration rates (metabolic study on plants).
- Characterisation of varieties.

Non-destructive analysis techniques

- Measurement of biofunctional compounds in fruit and vegetable products.
- Characterisation of diverse attributes of fruit and vegetable products and in real time.
- Calibration and validation of quality parameters in fruit and vegetable products using NIT technology ($^{\circ}$ Brix, pH, firmness, moisture, etc).

Packaging studies

- Product shelf life: microbiology and sensory quality.
- Optimization of packaging conditions.
- Modified atmosphere evolution inside containers for fresh and ready prepared products.
- Physical-chemical parameter evolution: texture, colour, firmness, etc.
- Biofunctional compound evolution.
- Nutritional composition evolution.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Ready-prepared and ready-cooked products.

- Establishing shelf life.
- Microbiological control.
- Nutritional composition.
- Packaging optimization.
- Intelligent packaging.
- Labeling studies.

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



FUNDACION CENTRO TECNOLÓGICO ANDALUZ DEL SECTOR CÁRNICO (TEICA)

Technological Centre

*PROFILE from Spain
(14ES0361)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Teica has become innovation service meat companies, agribusiness and auxiliary, expanding its business base. Teica activity, which has been growing exponentially, it's focused on three priority areas: R&D, technical assistance and training, it is framed within the strategic lines are: direct service to companies, testing demanded by the industry, engineering support and process optimization, technology transfer, documentary support and training of all levels (basic, intermediate, technicians and managers). Teica has advised the meat sector companies in the deployment of processes and actions which represent and environmental improvement. TEICA collaborate with diverse ecological cattle and breeders. This is the case of the implantation of the ISO 14001 Norm in companies, advising to enterprises in the accomplishment of environmental improvement actions within the program ECOINNOCAMARAS, and studying the viability of a biogas plant in the region using as substrates the meat industry residues. On the other hand, within A2TRANSFER (POPTec program, FEDER funds) and TRATECAR (REINDUS program) projects, Teica has made technology transfer activities based on improving production processes that make companies more environmentally sustainable. During the project development RETCETEC (POCTEFEX program, FEDER funds), TEICA has developed five prototypes of 5th range halal dishes. The same way, Teica has made the technological development of burgers using organic Iberian pork and organic beef. Teica technicians have participated as speakers at various seminars for

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

environmental improvement. Teica has a laboratory which performs all types of analytical to the meat sector companies, including sewage, and a pilot plant for the development of new processes

Expertise offered (related to the topic)

TEICA performs the design and development of new products and processes. Also, Teica carries out technology and practice viability verification studies of news products and processes and economic viability verification of these, performing market study, innovation strategy development and partner search. In the TEICA's pilot plant is made demonstration, testing, prototyping and piloting of new products and processes, and in TEICA's lab carry out Food Security Validation, both microbiological and Physicochemical both microbiological and Physicochemical. TEICA's Technical staff advises companies on Sustainable Food Security and performs implantation of HACCP.

Previous FP experience

TEICA has participated as principal beneficiary or as a partner in various calls of 7FP, the projects submitted were EVIPER, MICROGEST and NEWGOATPRO. TEICA has participated as principal beneficiary or as a partner in various calls of LIFE program, Modelling Biocontrol of *Listeria monocytogenes* in the Meat Industry, DEHESA VALOR and REWATER. Teica has carried out several projects financed by FEADER and FEDER funds. Programs POPTEC, POCTEFEX and GDR-FEADER. Teica has carried out the development of new products based on organic goose (GDR-FEADER), Iberian pork products obtained bred and fed in the chestnut (GDR-FEADER). In the project RETCETEC (POCTEFEX program) Teica developed five prototypes of 5th range halal and organic dishes, using organic lamb *lojeño*. Teica in NEWGOAT PRO project proposes the development of dishes from goat meat. Teica has requested funding for the program SUDOE to the realization of revalued viscera products

Role in the project

Research; Training; Tech. Development; Management; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing



CHAM FOODS

SME

*PROFILE from Israel
(14IL0326)*

TOPIC OF INTEREST

TOPIC

SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Working together with sustainable growers and farms for the supply of fruits and vegetables and herbs.

Receipt and handling of naturals in large scale.

Supportive in-house laboratory testings through all parts of processing.

Processing including concentration, cold and hot break, aseptic filling.

Drying processes such as spray drying and freeze drying in pilot and commercial scale.

Natural raw materials dried as powder or sliced or concentrated.

Expertise offered (related to the topic)

Previous FP experience

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

Organisation name: Israel-EU R&D Directorate

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Address: Industry House, 29 Hamered St.

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Country: Israel

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E-mail: uri@iserd.org.il

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-9-2014: Towards a gradual elimination of discards in European fisheries



EUROESPES BIOTECNOLOGÍA

SME

*PROFILE from Spain
(14ES0085)*

TOPIC OF INTEREST

TOPIC

SFS-9-2014: Towards a gradual elimination of discards in European fisheries

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ebiotec is a Spanish company founded in 2001, focused on research and development of innovative nutraceutical and technology services applied to health and human and animal consumption, allowing early diagnosis, disease prevention and individualized treatment. R&D activities:

- Molecular mechanisms of neuroinflammation.
- Receptors and signal transduction mechanisms.
- Development and function of neural networks.
- In vitro models of cultured neuronal embryonic cells.
- Models of in vitro primary neurons, microglia and astroglia cell cultures.
- In vitro models of tumor cell lines.
- In vivo models of neurodegeneration.
- In vivo models of inflammation.
- In vivo tumorigenesis models.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Biotechnology department at Ebiotec has been working since 1995 to the development of nutraceuticals from marine organisms. Many articles have been published on international journals, and different nutraceuticals have been developed for human consumption and are already in the national and international market. One of the main interest, related to the SFS-9-2014 topic, is to look at the possibility of a better use of discarded fisheries materials. We are already in contact with different Galician private companies and public research institutes interested in developing new models for sustainability in line with EU fishing policy.

Previous FP experience

Ebiotec is involved in the seventh framework programme (theme 2): Food, Agriculture and Fisheries, and Biotechnology. Project full title: Exploring Marine Resources for Bioactive Compounds: From Discovery to Sustainable Production and Industrial Applications". Project acronym: MAREX.

Role in the project

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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City: Ferrol

Country: Spain

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-9-2014: Towards a gradual elimination of discards in European fisheries



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0086)*

TOPIC OF INTEREST

TOPIC

SFS-9-2014: Towards a gradual elimination of discards in European fisheries

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

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* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0087)*

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agri-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

Expertise offered (related to the topic)

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



NANOIMMUNOTECH

SME

**PROFILE from SPAIN
(14ES0088)**

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0089)*

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client´s requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Maintenance works
- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- * Quality control systems
- * Robot control systems with computer vision
- Robotics:
- * Design and implementation of robotic systems
- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.
- Preventive and corrective maintenance works
- * Through qualified professionals with experience in programming and electromechanical installations.
- Design and developing of special machinery and systems for industrial vehicles
- Technical training courses
- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



PRONAMAR. UNIVERSITY OF A CORUÑA

R&D Institution

*PROFILE from Spain
(14ES0090)*

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

General activity: Our group PRONAMAR (Marine Natural Products, website: www.pronamar.com) is integrated into the research group QOSBIOS at the University of A Coruña. The main goal of PRONAMAR is the search for new bioactive natural substances, mainly from marine organisms, and the development of their applications, either from themselves or from their derivatives through synthetic processes. In the last 8 years we are focusing on the study of siderophores from fish pathogenic bacteria in fish farming. Relevant projects:

PROJECT: "Isolation and structural characterization of new siderophores produced by strains of *Vibrio anguillarum* pathogenic for turbot"

SPONSOR: Ministry of Education and Science (MAR99-0287) and Xunta de Galicia, (PGIDT00MAR10301PN), 2000-01.

PROJECT: "Synthesis and characterization of new antibacterial against strains pathogenic for turbot and clam, using the siderophores they produced by *Vibrio anguillarum* and *V. alginolyticus* as a model for their development"

SPONSOR: Xunta de Galicia, (PGIDIT05RMA10302PR), 2005-07.

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PROJECT: "Isolation and structural characterization of the siderophores produced by *Photobacterium damsela* subsp *piscicida*, preparation of analogues and their application to the development of new antimicrobials"

SPONSOR: Ministry of Education and Science, (AGL2009-12266-C02-02P), 2010-12.

PROJECT: "PROJECT: "Comparative analysis of siderophore synthesis in the two subspecies of *Photobacterium damsela*: new methods for prevention and control of vibriosis and pasteurellosis in fish "

SPONSOR: Ministry of Economy and Competitiveness, (AGL2012-39274-C02-02), 2013-15

Expertise offered (related to the topic)

Isolation and structural identification of any kind of siderophores. We are using genome mining as the first step in the identification of the siderophores. We have developed and published the application of hydrophilic-lipophilic balance (HLB) cartridges in the isolation of very polar siderophores (see J. Chromatogr. A, 2011, 1218, 1790). We are developing new strategies in the structural elucidation of the relative stereochemistry of acyclic compounds using the J-based configurational analysis coupled with molecular modeling studies at DFT level (see J. Org. Chem., 2010, 75, 7227)

Synthesis and biological evaluation of siderophores and analogs.

Previous FP experience

"Studies on the Bacterial Stress response and stress-induced cross-resistance (Bacterial Stress)"

SPONSOR: (Marie Curie International Incoming Fellowship), VII Framework Program of the European Union, (PIIF-GA-2010-274660), 2011.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



ALGATECHNOLOGIES

SME

*PROFILE from Israel
(14IL0330)*

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

Algatechologies is a rapidly growing biotechnology company, specializing in the commercial cultivation of microalgae. Founded in 1998, Algatechologies is a world leader in the production and supply of AstaPure® - a premium natural astaxanthin - one of the world's most powerful antioxidants sourced from the microalga Haematococcus pluvialis.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

Organisation name: Israel-Europe R&D Directorate

Address: 29 Hamered St.

City: Tel Aviv

Country: Israel

Contact person: Uri Fishelson

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Partnership Profile

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0350)*

TOPIC OF INTEREST

TOPIC

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

We count on several semi-industrial pilot plants for the use of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training courses and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

CTAQUA has participated in national and regional projects related to the prevention and treatment of parasite infections in farmed fish raised in earthen ponds in Spain. CTAQUA has carried out several projects related to disease of cultured fish species:

- "Evaluation of the efficacy of commercial vaccines for fish: case study, Gilthead seabream (*Sparus aurata*), European seabass (*Dicentrarchus labrax*) and Senegalese sole (*Solea senegalensis*) against *Photobacterium damsela* subsp. *Piscicida*",
- "Study of the etiology of the petechial rash in Gilthead seabream *Sparus aurata*",
- "Best practices for fish culture in earthen ponds to eradicate or minimize the impact of gill parasites"
- "Control and monitoring of gill parasites in fish cultured in earthen ponds".

Preventive treatments based on balanced feed formulation and application of different probiotic treatments were evaluated.

Skills: CTAQUA staff has extensive experience in follow up of field trials, samplings and application of treatments at the farm level. Likewise, they have experience in vaccination trials and challenge tests with marine fish.

Facilities:

CTAQUA counts with an Experimental Center to conduct fish trials under strictly defined and controlled environmental conditions both in fresh and seawater species. The members of the Foundation provides an industrial field to complete the pilot trials developed in the Experimental Center and evaluate the impact of research in real production conditions.

Among the wet labs, CTAQUA counts with a dedicated pathology lab, with a challenge room where bacteria and parasites can be used as pathogens. A microbiology room is also available.

- Farm application and evaluation of preventive measurements: use of feed additives to reduce and/or eradicate parasitic infestations
- Use of nutraceuticals and natural extracts in fish feed formulation as tools to control fish parasites
- Screenings of potential antiparasitic compounds from natural origins
- Design and application of husbandry practices on farm to diminish the effect of parasite infections

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

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- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0091)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic SFS 11 - 2014/2015: Implementation of an Ecosystem-based approach for European aquaculture that envisage projects that provide operational tools for spatial planning (including Geographic Information Systems, remote sensing and mapping for data management, analysis and modeling, decision-support tools).

We think that the initiatives promoted are really challenging for an organization like Geographica: We are specialized in advanced geospatial technology and software solutions that integrates, analyze, and display data (for desktop, web and mobile); We are experts data integration within custom software developments. First we understand the data and second we integrate them into a personalized software, ranging from the quick and simple to the specific application with high functionality; We use the latest technologies in geographic information systems to geolocalize data and show them in a clear and tidy way, with high-end functionality.

Because of our cross-cutting expertise we think we could fit in a large range of projects under this topic, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We have participate in a international projet (MedMIS) which scope was very similar to those that this topic address, we have deployed a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>)

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use

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with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project ´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Country: Spain

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E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture



ISOIN

SME

*PROFILE from Spain
(14ES0092)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

ISOIN (www.isoin.es) is a Spanish SME working in Information Technology field, with deep experienced and a high qualified labour in software development, ambient intelligence, mobile communications and system integration. ISOIN has been developing, for years, high quality products for its customers, doing consultancy services, analysing the ICT market, and providing training to public and private companies. ISOIN workforce is composed by a multidisciplinary team ranging from different areas of engineering (mechanical, telecommunications, computer science, economics and agricultural sciences) being spread out Spain, Italy and Colombia. At the same time, research and development have been one of ISOIN main aims in order to continue improving its solutions and services to its customers. Hence ISOIN has been participating in National and European R&D projects for more than ten years, starting back in FP5 at European level and never stopping since then. ISOIN has several on-going projects in different European calls (FP7, AAL, EUROSTARS), and national ones, developing innovative solutions for adding value to our products and services. Some of these projects and its key-words are:

- FORSAT - A satellite image processing platform for high resolution forest assessment.
- DIET4Elders - A system that collects data regarding the older adult's self-feeding activities and generate a response based on a prescribed diet.
- COIN - Collaboration and Interoperability services based on cloud computing and SaaS.

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- T&TNet - Travel & Transport solutions through emotional-social NETWORKING aimed at elderly.

Expertise offered (related to the topic)

The applications of ICT for this topic are quite board:

- Software engineering and software development of platforms, interfaces, DSS, etc.
- For the management of data we can provide Cloud Computing, Data Mining, image data storage platform Ontologies, etc
- We can develop platforms for Smart Environments (Wireless Sensor Networks, Z-wave, OSGi, Devices Profile for Web Services, etc)

ICTs can provide and manage extensive information that can be stored and accessed online. ISOIN has an extensive experience in OpenGIS solutions developed for different projects and necessities. This solution can be adapted for aquaculture

ISOIN counts in a previous experience thanks to FORSAT "A satellite image processing platform for high resolution forest assessment," is a project to raise the current technological capacity of aerial imagery combined with airborne laser scanning for forest cover mapping applications to a stand-alone, satellite-based monitoring capacity, where ISOIN is a partner.

Previous FP experience

ISOIN´s count on a long track of experience in coordinating and participating in European projects in many different R&D programmes, but specifically in Framework Programme ISOIN has been involved in:

FP5-OLIMP3D: 3D technologies applied to industrial design and modelling of industrial products for SMEs

FP6-CADPIPE: Cad Production Pipeline

FP6-ECOLEAD: European Collaborative networked Organizations LEADership initiative

FP7-COIN: Enterprise Collaboration & Interoperability

FP7-MyUI: Mainstreaming Accessibility through Synergistic User Modelling and Adaptability

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0093)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0094)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0095)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

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Country: Denmark

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-11-2014/2015: Implementation of an Ecosystem- based approach for European aquaculture



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0351)*

TOPIC OF INTEREST

TOPIC

SFS-11-2014/2015: Implementation of an Ecosystem- based approach for European aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

CTAQUA has a broad experience in the design and realization of formal documents related to the general planning for aquaculture programs. As well for the regional administration as for national

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

administration, CTAQUA has performed different studies concerning the estimate of aquaculture activities in the region, it has also contributed to the national development of general aquaculture activities including main focus species for the sector and implementation of regional programs together with the Fisheries and Aquaculture Administration representative organisms. The entire members from CTAQUA are farmers and other related companies, so it is one of the main interests of the Foundation to participate with the administration in the development and implementation of sustainable aquaculture production programs.

At international level, CTAQUA is developing the aquaculture coastal spatial planning program of the South Moroccan coast (Dakhla region), including operations of some aqua related activities (processing, distribution, etc...)

Skills: Actually CTAQUA staff is responsible for the establishment of aqua culture production zones in the Dakhla region, Morocco

PROPOSED ACTIVITIES

- Analysis of the institutional and organizational context of aquaculture production
- Definition of indicators for the sustainability of aquaculture in the area

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



NANOIMMUNOTECH

SME

**PROFILE from SPAIN
(14ES0096)**

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - FOOD, METABOLOMICS AND SENSORY SCIENCE**

R&D Institution

*PROFILE from Denmark
(14DK0097)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

The group is working with metabolomics applications in food and nutrition research. Activities include metabolite profiling of food items including vegetables, fruits, dairy products and fresh meat and meat products with emphasis on the health potential, storage-induced changes and quality of the food items. The metabolomics activities also include analyses on biofluids (blood, urine, saliva) and tissue samples. Biofluid-based and tissue-based metabolomics is applied in research projects to elucidate the impact of diet on metabolism and health markers in relation to human diet and human health. As examples, impact of intake of intact and modified (hydrolysis) dietary protein and different dietary protein sources has been elucidated by applying metabolomics on biofluid and tissue samples collected from animals fed the different dietary proteins. Biofluid-based and tissue-based metabolomics is also applied to elucidate metabolism in husbandry animals in relation to production systems and other pre- and post-slaughter factors. As examples, metabolomics has been applied on blood samples collected from pigs to elucidate the impact of exposure to pre-slaughter stress and introduction of a resting period prior to slaughter and metabolomics has been applied on pork from different crossbreeds in order to elucidate relation between meat metabolites, meat quality and sensory perception.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The analytical platform contains LC-MS- and NMR-based techniques including magic angle spinning probes for measurements on semi-solid materials such as foods and low-field NMR relaxometry for determination of water mobility, water-protein interactions and water-binding properties of foods.

Expertise offered (related to the topic)

Within metabolomics , biomarker identification, muscle physiology, meat science.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

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FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping
(Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



DEPARTMENT OF PHARMACOLOGY. UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

PROFILE from Spain
(14ES0098)

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Identification of potential drug effects of natural compounds. Toxicological studies. Analytical developments.

Expertise offered (related to the topic)

Marine toxins: toxicology, use as new drugs, analytical methodology, functional assays. Same with aquatic toxins, and with marine compounds of any origin.

Previous FP experience

BAMMBO, BIOCOP, SPIES-DETOX, Pharmatlantic, Atlantox, Detectox, Pharmasea, Confidence, Beads, µAQUA, Ciguatools

Role in the project

Research; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 Business Support on Your Doorstep		European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

 *ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES*

R&D Institution

*PROFILE from Germany
(14DE0099)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Insitute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and develepment projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department for Meat Technolgy has special interest in sustainability activities in the meat production chain including mechanically separated meat.

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produces from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



RESEARCH GROUP "DEGRADACION DE TOXICOS ORGANICOS" (BIO191). ESTACIÓN EXPERIMENTAL DEL ZAIDÍN (CSIC)

R&D Institution

PROFILE from Spain
(14ES0100)

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Tino Krell heads the Laboratory of bacterial Sensing and Signal Transduction (<http://krell-laboratory.com/>) at the CSIC Institute Estación Experimental del Zaidín (<http://krell-laboratory.com/>). The laboratory studies modes by which sensor proteins detect environmental signals and ITC plays a central role in their research. Using ITC the laboratory has established many collaborations to study diverse molecular interactions.

Expertise offered (related to the topic)

Precise characterization of molecular interaction using microcalorimetry

To understand the molecular mechanisms of biological processes, knowledge on the molecular interaction of participating molecules is essential. Isothermal titration calorimetry (ITC) is now recognized as the Gold standard technique to study the molecular interaction between two ligands. An ITC experiments permits the determination of the full set of thermodynamic binding parameters in a single experiment (association constant K_A , dissociation constant K_D , enthalpy change, entropy change and Gibbs free energy change) and can provide useful information on the binding stoichiometry. An ITC experiment consists in a titration of one ligand with another and heat changes resulting from binding processes are measured. Ligands are both in solution and there is no need for

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Sector Group Agrofood

their chemical modification. Since any type of binding causes heat changes ITC permits to analyze all types of molecular interaction.

Tino Krell is a recognized microcalorimetry expert with more than 50 research articles in this field. He has used ITC to study the interaction between two different proteins (for example Daddaoua et al. (2013) Nucleic Acids Res. In press, Busch et al. (2009) J. Biol. Chem. 284:10353), proteins and DNA (Lacal et al. (2008a) J. Mol. Biol. 384:1037, Lacal et al. (2008b) J. Mol. Biol. 376:325, Guazzaroni et al. (2007) J. Mol. Biol. 369:927, Krell et al. (2007), J. Mol. Biol. 369:1188), proteins and small ligands (for example Garcia-Fontana et al. (2013) J Biol Chem. 288, 18987, Rico-Jiménez et al. (2013) Mol. Microbiol. 88,1230, Pineda-Molina et al. (2012) PNAS 109:18926, Arce-Rodríguez et al. (2012) Environ Microbiol. 14:702, Fillet et al. (2011) PNAS 108(37):15372, Busch et al. (2007) PNAS 104:13774, Lu et al. (2010) Lu et al. Genes Dev. 24:2556, Lacal et al. (2006) PNAS 103:8191) or peptides and small ligands (Santamaría-Hernando et al. (2012) PLoS One. 7:e40698). Since ITC is an universally applicable technique there is almost no limitation as to the choice of ligands and there is significant amount of literature that has described the ITC study of small molecules, RNA, carbohydrates, lipids, sugars etc.. In addition ITC is a universal assay for enzymatic activities (see Todd & Gomez (2001) Anal Biochem. ;296:179-87).

Previous FP experience

External advisor of the Euroneut-41 FP project on the development of an European anti-HIV vaccine (total budget 12 million Euros)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



RESEARCH GROUP: "QUÍMICA ANALÍTICA DE CONTAMINANTES" (FQM170)

R&D Institution

PROFILE from Spain
(14ES0101)

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

As cooperation partner, we are mainly focused on R&D and knowledge transfer activities in food safety and quality. to this topic:

- a) Determination of organic residues and contaminants (mycotoxins, pesticides, veterinary drug, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), phenolic compounds (i.e. nonylphenol, tert-octylphenol), and polybrominated diphenylethers (PBDEs)), including transformation products in food samples and related matrices as nutraceutical products. These determinations are based on chromatographic techniques coupled to mass spectrometry (triple quadrupole, quadrupole-time of flight, Exactive-Orbitrap, magnetic sector). Additionally, method development is being performed for the determination of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDF) in food samples.
- b) Environmental matrices such as wastewater and soils (especially in areas devoted to intensive agriculture in plastic-based greenhouses) are also of interest for our cluster (e.g. monitoring programs).
- c) Determination of contaminants and/or antibiotics in biological fluids.

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d) Establishment of validation and quality control procedures for the evaluation of the reliability of the developed methods. Quantitative validation and quality control procedures have also been performed in order to fulfil the requirements set by international legislation (mainly the European Union) and the chemical process of measurements is under statistical control, according to official accreditation guidelines (i. e. ISO/IEC 17025).

Expertise offered (related to the topic)

The Research Group can provide analytical support related to this topic:

- 1) Quality control procedures for the reliable determination of pesticide/veterinary drug residues, organic contaminants as mycotoxins, and persistent organic pollutants in food, biological and environmental samples.
- 2) LC-MS and GC-MS instruments suitable for adequate identification/confirmation of a high variety of compounds, including residues/organic contaminants are available.
- 3) An Exactive-Orbitrap instrument is fully available. This instrument has been used for the development of a database for the fast and reliable determination of mycotoxins, pesticides, veterinary drug residues in food and environmental samples. Nowadays, more than 500 compounds are included in the database. Moreover, unknown compounds could be identified using this type of equipment.
- 4) Among the facilities of the Group, a magnetic sector (GC-HRMS) instrument is fully available. This instrument has been used in the Group for the development of highly sensitive methods for the determination of PBDEs in food and environmental samples. Further development studies are currently focused on methodologies for the monitoring of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDF), pesticides, PAHs and PCBs.

The advanced analytical instrumentation available in the Group as well as the experience using it must be also considered. In this sense, advanced instruments such as Exactive-Orbitrap or DFS would increase the analytical capabilities of the EU cluster, improving the scope and the sensitivity of any required analysis, including target, non-target or unknown analyses. Finally, it is important to highlight that one of the main purposes of the research group is transferring the developed methodologies and knowledge to control laboratories. Therefore, there are several research projects with private laboratories related to this topic.

Previous FP experience

The group had participated as a partner in a Project during the IV EU Framework (FP4), entitled "The assessment of risk of exposure to plant protection products by operators, bystanders and workers

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and the environment" (REF: SMT4-CJ96-2048 (DG12-RSMT). Furthermore we have participated in the preparation of other projects in several calls (i.e. FP7-REGIONS-2009-1, Cooperation ENV.2008.6.1.2.1.4), obtaining good score, although the Project was not finally founded. Finally, in the last call of the FP7, we submitted a proposal as coordinators and another one as partner (FP7-KBBE-2013-7), but both projects were not founded.

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0102)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

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Finantial support: de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Finantial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Finantial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Finantial support: European Comission, Directorate-General Justice

Date: 2012-2015, Participants: Universitá Católica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela, Spain

Title: Innovations in functional-chemical speciation in environmental nanotecnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Finantial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavaliability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO MARKET	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



BIO DIAGSAN

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0103)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

BIO DIAGSAN presents a structure of start-up, with a management team composed by biologists, economists and lawyers, who is strongly dedicated to the development of diagnostic and computer-aided tools focusing their main interest in agrofood sector. The initiative is born in Galicia, where the social-economic impact of that sector is very important and so we have pursuit as the key goal to achieve the improvement of farmers's economy, looking forward alternative ways and solutions to the traditional bottlenecks of the animal health and welfare at farm level.

Expertise offered (related to the topic)

We have some experience concerning the design and development of molecular diagnosis platform related with immunoassays. Currently, our efforts are focused to develop a LOC-based biochip to detect preventively microbial targets that could be present in dairy foods causing food-borne disorders as well as to know the epidemiological risks analysis related with dairy foods at farm/dairy factory level.

Previous FP experience

We have submitted some proposal to the KBBE topic related with the multi-purpose diagnostic systems to detect mastitic and other related pathogens affecting to dairy herds

Role in the project

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



FOOD SCIENCE. FACULTY OF PHARMACY. UNIVERSITY OF SANTIAGO DE COMPOSTELA

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0104)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Participation in several EU projects: EU Project QLK1-CT2002-2390. Modelling migration from plastics into foodstuffs as a novel and cost efficient tool for estimation of consumer exposure from food contact materials. EU Project Call Identifier FP7-KBBE-2007-1; Contract No: 211686; Project acronym: FACET; Title of project: Flavours, additives and food contact material exposure task.

Expertise offered (related to the topic)

The University of Santiago de Compostela was founded in 1495. At present USC has 19 Faculties, 75 Departments and a staff of 3,000 (> 2000 are professors and researches).The Laboratory of the participant research group is located at the Faculty of Pharmacy and it is fully equipped with all necessary analytical instrumentation for the execution of tasks related to chemical food security. Since 1990 the research group has been working in Food Contact Materials subject and it has a large experience developing analytical methods for migrants in foods, food simulants and residual starting substances in packaging materials, carrying out overall and specific migration tests and determining key parameters of diffusion (diffusion coefficients, partition coefficients, etc.). Scientific/technical team and its experience in relation to the topic:

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP 5: Priority Programme 1 Quality of Life and Management of Living Resources. Key Action 1 Food Nutrition and Health. FP7

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

 **UNIVERSITY OF GASTRONOMIC SCIENCES/ SYSTEMIC FOOD DESIGN RESEARCH UNIT**

R&D Institution

*PROFILE from Italy
(14IT0289)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Gastronomic Sciences, founded in 2004 by the international non-profit Slow Food in cooperation with the Italian regions of Piedmont and Emilia-Romagna, is a ministerially recognized, private non-profit institution.

Its goal is to create an international research and education center for those working on renewing farming methods, protecting biodiversity, and building an organic relationship between gastronomy and agricultural science.

Relevant projects:

2010-2012 Poliedro , Pollenzo Index Environmental and Economics Design funded by Piedmont Region

2011-2013 Pollenzo's Index funded by Turin Commercial Chambre
2010-2012 People Interaction with Enhanced Multimodal Objects for a new territorial experience- Want-eat, funded by Piedmont Region

2012-2013 Systemic Food Design funded by Comieco

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Systemic design according the principle of circular economy to optimise food production, processing, commercialisation systems

Eco- Packaging (primary, secondary and tertiary)

Interaction with smart objects (App, augmented reality, QR code, App, website, Innovative Social Network)

Design of Eco-events

Previous FP experience

No previous experience

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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Country: Italy

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

 **ISTITUTO ZOOPROFILATTICO SPERIMENTALE PIEMONTE LIGURIA E VALLE D'AOSTA**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0105)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta is an health governmental body founded in 1912. The Institute tasks are to guarantee consumer's health by protecting animal population health and welfare and by improving and controlling food and feed production, thus enhancing the safety levels for food and feed: it supports local and national veterinary services in epidemiological analysis, food hygiene and environmental control activity and research activity. National and local veterinary services, and professional veterinarian, breeders, food manufacturers and consumers too, can address to our Institute for scientific and technical advices, controls and animal health diagnostics Projects:- European Network: Concerted Action SRTSE. European network for surveillance and control of TSE in Small ruminants (5th Framework).

- Slovakia - Twinning project for the implementation of a TSE surveillance system in Slovakia: participation as expert on genetics and TSE diagnosis.
- Germany - Tutor in the BTSF "Training on the prevention, control and eradication of Transmissible Spongiform Encephalopathies".
- Netherlands- Central Veterinary Institute (CVI), Wageningen University and Research Centre di Lelystad: "Project Goat BSE Neuroprion"

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Netherlands – CIDC, Lelystad: " Research project under the call EMIDA and for the study of analytical sensitivity of all the approved rapid tests against atypical forms of BSE"
- UK - VLA Weybridge: PROJECT NADIR "Atypical scrapie to cattle - is there a risk?"
- CIDC-Lelystad; INRA- France; IAH-UK; CISA-INIA-Spain; UNIZAR- Spain; FLI-INEID- Germany; CERTH-INA –Greece; CEA-France: "Specific Targeted Research Project (STREP), "GoatBSE: Proposal for improvement of goat TSE discriminative diagnosis and susceptibility based assessment of BSE infectivity in goat milk and meat".
- Germany-Uk-Belgium: "SANCO TrainSaferFood European Training Platform for Safer Food courses: Workshop on Prevention, control and eradication of Transmissible Spongiform Encephalopathies".
- France- Spain- UK- Greece- Germany: "EMIDA-ERANET: "Goat-TSE-Free; Towards breeding of goats for genetically determined TSE resistance".
- Macedonia – Strumica (Skopje). Capacity building of the veterinary service for implementation of EU Acquis - FYROM (2010/244-472)", Publ. ref: EuropeAid/128546/C/SER/MK, for "Training course on animal by products (ABP) and transmissible spongiform encephalopathies (TSE) ".
- Network of Excellence – Prevention, Control and Management of Prion Disease (NEUROPRION).

Expertise offered (related to the topic)

The Rapid Test Laboratory focuses its activities on the application and implementations of mechanism-based technologies for the screening and testing of endocrine disrupting chemicals in food and food contact materials. The test methods, based on reporter gene bioassay systems, are specifically designed to characterize and quantify hazards of mixture of food-related toxic chemicals that interact primarily with the estrogen, androgen and thyroid hormonal systems and steroidogenesis pathways altering their functions and consequently causing adverse health effects in a intact organism, or its progeny, or (sub) populations. Such risk-based approach focuses on the health risks of combined exposures to multiple chemicals from multiple sources across differing life stages, taking into account the gender and age-related dimension and consequently improving the robustness and efficiency of risk assessment. Assays are conducted in 24, 48, or 96 well plates, and scale up for high-throughput assessment can easily be obtained. An essential point in our approach can also be identified as the way forward to generate rapid and efficient toxicity screens that can replace lengthy and costly animal testing in toxicological research in the frame of an harmonized fashion of regulatory purposes.

Previous FP experience

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Fifth Framework Programme of the European Community for Research, Technological development and Demonstration activities (1998 - 2002):

Network For Surveillance And Control Of Tse In Small Ruminant;

Sixth Framework Programme of the European Community for Research and Technological Development and demonstration activities (2002 - 2006):

NeuroPrion

Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 - 2013):

STREP: Specific Targeted Research Project, "Goat BSE: Proposal for improvement of goat TSE discriminative diagnosis and susceptibility based assessment of BSE infectivity in goat milk and meat".

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

- *CENTIV GMBH*
SME
PROFILE from Germany
(14DE0314)

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance

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- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program).

Expertise offered (related to the topic)

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

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Previous FP experience

BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

HighTech Europe: the first european network in food processing, www.hightecheurope.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

- *FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG*

R&D Institution

*PROFILE from Germany
(14DE0318)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to another markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personal in biological and instrumental analytics. IME, together with its partners in the Fraunhofer Food Chain Management Alliance (FCM), is able to provide comprehensive solutions in this area for all stake-holders in the food chain and finally to the consumer. The department is run by a large staff-pool with decades of experience of all instrumental analytical skills in the food and environmental sectors.

We possess a wide range of instrumentation from UPLC coupled to HR-MS/MS to GC-MS/MS with multiple possibilities for automated sample preparation and a 750 MHz NMR for structure elucidation. We have a strong background in the analysis of trace contaminations.

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0352)*

TOPIC OF INTEREST

TOPIC

SFS-12-2014: Assessing the health risks of combined human exposure to multiple food-related toxic substances

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD is specialized in the following areas of research:

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Pilot activities aiming to show technical feasibility in a near to operational environment
- Study of effects and dosage application of new active compounds in meat and dairy products
- Design methodologies and application of advanced technologies to improve food safety (*Listeria monocytogenes*, *E. coli*, *Salmonella*, *Mycobacterium*, *Campylobacter*, *Yersinia*, *Mycoplasma*)
- Study and evaluation of new additives in animal health status and performance
- Inclusion of (natural) additives in food products
- Development and sensory evaluation of new (functional) food products.
- Development and sensory evaluation of new healthy ready-to-eat products.
- Development of new healthy products based on meat products (raw, cured), dairy products (from different species, cow, goat and sheep).

IDEALFOOD could focus on:

- Research and demonstration activities in our pilots plants
- Providing SMEs and other stakeholders to the proposal

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0106)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

The Food Science and Safety Dpt. of CTAEX has a vast expertise in the isolation, identification, quantification and evaluation of specific active compounds existing in aromatic and medicinal plants as well as agro-food industries residues and by-products, and consequent employment with agricultural, feed, food, packaging, pharmaceutical and cosmetics purposes, such as:

- Extraction and stabilization of omega-3 lipids and natural antioxidants in feed, food and cosmetic applications.
- Employment of biocide extracts of vegetable species to be used against weeds, biological agents and pests during cultivation of legumes, cereals and fruits and vegetables crops.
- Evaluation of biocides as postharvest treatment agents.
- Substitution of chemical preservatives in food products by direct application or incorporation in the packaging.

In other cases, the Department has employed the techniques needed in the development of functional studies where plant extracts / agro-food residues are analyzed according to protocol screening methodologies (antioxidant, anti-inflammatory, anti-biocide, etc.), depending on the composition of their bioactive chemo type.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society´11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

SFS-13-2015: Biological contamination of crops and the food chain



FOUNDATION OF AUXILIARY INDUSTRY OF
AGRICULTURE, TECNOVA FOUNDATION

Technological Centre

*PROFILE from Spain
(14ES0287)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

Postharvest and Packaging Technology

Postharvest consulting

- Advice regarding the implementation of the APPCC system.
- Optimisation and monitoring of food quality management systems.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Innovation studies on agro-industrial processes (preservation, transport conditions etc.)
- Market research (new products, trends etc.).
- Electronic fruit: determination of major points of impact during handling and design optimisation.
- Studies on respiration rates (metabolic study on plants).
- Characterisation of varieties.

Non-destructive analysis techniques

- Measurement of biofunctional compounds in fruit and vegetable products.
- Characterisation of diverse attributes of fruit and vegetable products and in real time.
- Calibration and validation of quality parameters in fruit and vegetable products using NIT technology ($^{\circ}$ Brix, pH, firmness, moisture, etc).

Packaging studies

- Product shelf life: microbiology and sensory quality.
- Optimization of packaging conditions.
- Modified atmosphere evolution inside containers for fresh and ready prepared products.
- Physical-chemical parameter evolution: texture, colour, firmness, etc.
- Biofunctional compound evolution.
- Nutritional composition evolution.

Ready-prepared and ready-cooked products.

- Establishing shelf life.
- Microbiological control.
- Nutritional composition.
- Packaging optimization.
- Intelligent packaging.
- Labeling studies.

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain

 **CRPV (CENTRO RICERCHE PRODUZIONI VEGETALI - CROP PRODUCTION RESEARCH CENTRE)**

SME

*PROFILE from Italy
(14IT0107)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

CRPV (Crop Production Research Centre – www.crpv.it) is a cooperative company located in Cesena (Po Valley, Northern Italy), registered as a SME, developing research on crop production, through four main topics: a) fruit, vegetables, seeds, floriculture; b) viticulture, oenology, olive oil; c) cereals, beets, oilseed crops; d) bio-energy. CRPV members are producers associations, institutes for technical assistance and professional education, provincial administrations and economic organizations. CRPV, registered in EU as a SME, in 1998 received the acknowledgment by Emilia-Romagna Region as centre for planning, research co-ordination, experimentation and results' diffusion.

Its mission is to promote, coordinate and manage research and experimental projects on agro-food sector and spread the emerging results to the agricultural production system. The beneficiaries are agro-food producers and stakeholders. CRPV main activities carried out are: a) research for sustainable crop protection for organic and integrated crop production, b) genetic improvement & patents (Plant Breeders' Rights) management, c) research for production's optimization and integrated production guidelines, d) ICT applications, e) bio-energy development, f) economic analyses for farmers, g) planning & testing biomasses for bio-energy production, h) supporting producers in quality & traceability certification process, i) results' dissemination & technologies transfer, j) experimental field activities

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and assessments on IPM and biological control of pests/pathogens affecting crops, weeds control. CRPV has availability of facilities like experimental vineyards, orchards, greenhouses, equipped laboratories for chemical, biochemical, bio-molecular and microbiological analyses. Other Services: technology transfer, data bank management, guidelines for IPM application updating, new variety production, tracing of supply chain, accounting and administrative support.

Expertise offered (related to the topic)

CRPV offers its know-how to reduce the risk of biological contamination represented by mycotoxins in viticulture and cereal productions (wheat and maize). In particular, the attention is focused on a multidisciplinary research project (agronomy, pathology, phytoiatry, microbiology, forecasting models ,enology) able to strengthen the knowledge on the factors influencing the formation of mycotoxins (ochratoxins, DON, aflatoxins and fumonisins) in order to identify the necessary tools to improve food security.

Other projects implemented by CRPV have regarded the following issues: monitoring activities on grain production for the definition of risk maps, agronomical and chemical control methods, modelling for the risk of contamination, decision support systems, and others.

Previous FP experience

CRPV at present is partner of a FP7 project, "MARS - Marker Assisted Resistance to Sharka" (FP7-KBBE.2013.1.4-7). The project (with a duration from 2013 to 2015) aims to boost the production of sharka resistant stone fruit cultivars by transferring the efficient and reliable procedures of MAS, conceived in a previous EU project "SharCo", to SMEs. The role of CRPV in the project is to contribute to the dissemination of project technologies and results and promotion of PPV resistant apricot cultivars, also providing a number of facilities, which include: a) experimental orchards (seedlings and selection fields); b) greenhouses and equipment for PPV phenotyping with most spread strains; c) equipped laboratories for chemical, biochemical, bio-molecular and microbiological analyses on fruit and vegetables.

Role in the project

Research; Training; Dissemination; Demonstration;

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0108)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agri-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40 National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

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**European R&D projects -
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Sector Group Agrofood

Expertise offered (related to the topic)

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0109)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain

 *ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES*

R&D Institution

*PROFILE from Germany
(14DE0110)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department for Meat Technology has special interest in sustainability activities in the meat production chain including mechanically separated meat.

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produced from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of

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ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



RESEARCH GROUP: "QUÍMICA ANALÍTICA DE CONTAMINANTES" (FQM170)

R&D Institution

*PROFILE from Spain
(14ES0111)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

As cooperation partner, we are mainly focused on R&D and knowledge transfer activities in the field of food safety and quality. Our activities, including on-going R&D projects, can be summarized as follows:

a) Determination of residues and organic contaminants from chemical and biological origin. Thus, mycotoxins (aflatoxins, ochratoxin A, trichothecenes), pesticides, veterinary drugs, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), phenolic compounds of environmental interest (i.e. nonylphenol, tert-octylphenol), and polybrominated diphenylethers (PBDEs), including transformation products. The Group has expertise on the determination of these compounds in food samples, nutraceutical products and environmental samples. These determinations are based on chromatographic techniques coupled to mass spectrometry (triple quadrupole, quadrupole-time-of-flight, Exactive-Orbitrap, magnetic sector). Particularly, the Group has methods for the simultaneous determination of several classes of mycotoxins in different matrices as cereals, milk (aflatoxin M1 according to EU legislation), animal feed, beverages and nutraceuticals.

b) Moreover, analytical methods have been developed for the determination of contaminants and/or antibiotics in biological fluids and environmental samples such as soils and wastewater. The developed methods have been applied in several monitoring programs.

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c) Establishment of validation and quality control procedures for the evaluation of the reliability of the developed methods. Quantitative validation and quality control procedures have been also performed in order to fulfil the requirements set by international legislation (mainly the European Union) and the chemical process of measurements is under statistical control, according to official accreditation guidelines (i. e. ISO/IEC 17025).

Expertise offered (related to the topic)

The Research Group can provide analytical support related to this topic:

- 1) Quality control procedures for the reliable determination of organic contaminants from biological origin such as mycotoxins, other contaminants/residues of interest for food safety (pesticides, veterinary drugs or persistent organic pollutants). Matrix of interest are foodstuffs and environmental samples.
- 2) LC-MS and GC-MS instruments suitable for adequate identification/confirmation of a high variety of compounds, including residues/organic contaminants are available.
- 3) Among the facilities of the Group, an Exactive-Orbitrap instrument is fully available. This instrument has been used for the development of a database for the fast and reliable determination of mycotoxins, pesticides, veterinary drug residues in food and environmental samples. Currently, more than 500 compounds, including several classes of mycotoxins as aflatoxins, trichothecenes, ochratoxin A can be monitored in a single analysis. Moreover, unknown compounds could be identified using this type of equipment.

The advanced analytical instrumentation available in the Group as well as the experience using it must be also considered. In this sense, advanced instruments such as Exactive-Orbitrap would increase the analytical capabilities of the EU cluster, improving the scope and the sensitivity of any required analysis, including target, non-target or unknown analyses. Finally, it is important to highlight that one of the main purposes of the research group is transferring the developed methodologies and knowledge to control laboratories. Therefore, there are several research projects with private laboratories related to this topic.

Previous FP experience

The group had participated as a partner in a Project during the IV EU Framework (FP4), entitled "The assessment of risk of exposure to plant protection products by operators, bystanders and workers and the environment" (REF: SMT4-CJ96-2048 (DG12-RSMT). Furthermore we have participated in the preparation of other projects in several calls (i.e. FP7-REGIONS-2009-1, Cooperation ENV.2008.6.1.2.1.4), obtaining good score, although the Project was not finally founded. Finally, in

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the last call of the FP7, we submitted a proposal as coordinators and another one as partner (FP7-KBBE-2013-7), but both projects were not founded.

Role in the project

Research; Training; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0112)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

Financial support: de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

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Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Finantial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Finantial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Finantial support: European Comission, Directorate-General Justice

Date: 2012-2015, Participants: Universitá Católica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela,Spain

Title: Innovations in functional-chemical speciation in environmental nanotecnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Finantial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavaliability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Previous FP experience

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain

 **TECNOGRANDA SPA**

Technological Centre

*PROFILE from Italy
(14IT0306)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

TECNOGRANDA is the first innovation cluster for the agro-food and nutrition technology research in Piedmont, offering a wide range of tools to satisfy all compartment needs: innovation and R&D, technological transfer, enterprise services, spin-off, start-up and easy contact with public and private funds.

TECNOGRANDA, supported by mixed public and private funds, joins a regional network of technological innovation centers, sharing knowledge and technological tools and promoting Technology Transfer activities focused on process & product innovation.

TECNOGRANDA helps enterprises identifying their actual needs in terms of innovation, gathering internal skills or as aggregation centre between numerous academia and research centers. TECNOGRANDA coordinates and realizes research and innovation projects. As manager of the agri-food innovation cluster, Tecnogranda gathers more than 420 companies in Piedmont Region, mostly SMEs, active in all the fields of food technologies (traceability and logistics, food processing, food products, ...), thus representing a wide potential of dissemination and exploitation.

Technological platforms available in TECNOGRANDA concern traceability systems, nanotechnology and materials processing, innovation in packaging, innovative technologies for food/packaging sanitization, such as cold plasma, microwaves, ozone, etc.

Expertise offered (related to the topic)

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Experience was gained in the field of several R&D and TT transfer projects regarding:

- decontamination of fresh food (rice, hazelnuts, milk, dry fruits) from mycotoxins by means of non conventional techniques (cold atmospheric plasma, MW)

Previous FP experience

Experience in EU projects:

- Interreg ALCOTRA "FASST" project (2009-2010), partner.
- Interreg ALCOTRA "Eco-Extraction Transfrontaliere" project (2011-2013), partner.
- Public Health "SALUX" - A EUROPEAN NETWORK TO FOLLOW-UP THE REFORMULATION OF MANUFACTURED FOODS IN TERMS OF THE REDUCTION OF THE LEVELS OF FAT, SATURATED AND TRANS FAT, SALT AND SUGAR, Project Coordinator.

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain

- *FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG*

R&D Institution

*PROFILE from Germany
(14DE0322)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to another markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

Expertise offered (related to the topic)

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personal in biological and instrumental analytics. IME, together with its partners in the Fraunhofer Food Chain Management Alliance (FCM), is able to provide comprehensive solutions in

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

this area for all stake-holders in the food chain and finally to the consumer. The department is run by a large staff-pool with decades of experience of all instrumental analytical skills in the food and environmental sectors.

The department counts with L2 and S1 facilities, and its certified to conduct GLP studies. We count with fully equipped molecular-and microbiological laboratories for:

- Species differentiation
- Microbial profiling
- Pathogens fast detection in food
- Gene expression analysis

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-13-2015: Biological contamination of crops and the food chain



COVAP

Large company

*PROFILE from SPAIN
(14ES0367)*

TOPIC OF INTEREST

TOPIC

SFS-13-2015: Biological contamination of crops and the food chain

ORGANIZATION EXPERTISE

ENTITY PROFILE

COVAP is the largest agroindustry cooperative in Andalucia and is one of the most important in Spain, founded in 1959. The business scope is mainly focused on dairy products, animal feed, and meat products: 1) milk, milk shakes, enriched milks, 2) sheep, cow and goat cheese, 3) Iberian Ham and sausages, and 4) Iberian pig, beef and lamb meats. COVAP has an integrated production system based on an eco-sustainable model.

Its pastureland use rotational farming methods, meaning that the land is used to grow cereals for a period, and then used for livestock grazing. This kind of relationship between crop and animal farming is only possible due to a balance in the use of natural resources.

COVAP integrated production chain involves livestock, feeding, industrialization, commercialization and consumer (markets). The main advantage using this model is to have the control over the different steps till reach the end product and implement solutions from farm to fork. Each action at different levels will affect the rest in the chain, following up the quality and traceability of each end product. Moreover, COVAP has set up its own technical support service to get closer to members and to provide them with everything they need to improve their production conditions. A skilled team of professionals provides a highly personalised service to members by carrying out a lot of field work. There are now four main support areas: 1) Rural Engineering and the Environment, 2) Hygiene and Health, 3) Reproduction, and 4) Comprehensive Advisory Services to help members to take advantage with the support of Public Administration.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

COVAP's Composite Feed Factory and Fresh Mixes (Unifeed) Factory produce feed for different animal species, which is supplied to their members. The Factories have capacity to produce 157 million kilos of feed and 156 million kilos a year of fresh mixtures, respectively. The product catalogue is designed to cover the needs of each type of animal and productive state (production, gestation, drying, ..).

For COVAP it is of great importance to ensure the quality of its raw material, which will contribute to develop a high standard quality products. The growing concern about the presence of mycotoxins in raw materials and feed, and disorders that can result in animals after its consumption, will require to tackle different solutions in order to ensure product safety and traceability.

Previous FP experience

COVAP has participated in the following International Research Projects: BRIDGE Project (6th FP) where the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. Currently, COVAP is involved in a Research Project from 7th FP Called BIOFOS which attempt to develop a high-added value multi-analyte biosensor for quality control in food industry. Under the figure of EUREKA, COVAP is running the Project INFORMED, which addresses online monitoring & control of production in the meat processing industry. Moreover, COVAP has huge experience in developing research projects financed by its own resources and with National funding, in areas such as Food quality, Food safety, Animal Health Status and Production Improvement, or New Products/Processes Development.

Role in the project

Tech. Development; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network <i>Business Support on Your Doorstep</i>  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0113)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

The Food Science and Safety Dpt. of CTAEX has a vast expertise in the isolation, identification, quantification and evaluation of specific active compounds existing in aromatic and medicinal plants as well as agro-food industries residues and by-products, and consequent employment with agricultural, feed, food, packaging, pharmaceutical and cosmetics purposes, such as:

- Extraction and stabilization of omega-3 lipids and natural antioxidants in feed, food and cosmetic applications.
- Employment of biocide extracts of vegetable species to be used against weeds, biological agents and pests during cultivation of legumes, cereals and fruits and vegetables crops.
- Evaluation of biocides as postharvest treatment agents.
- Substitution of chemical preservatives in food products by direct application or incorporation in the packaging.

In other cases, the Department has employed the techniques needed in the development of functional studies where plant extracts / agro-food residues are analyzed according to protocol screening methodologies (antioxidant, anti-inflammatory, anti-biocide, etc.), depending on the composition of their bioactive chemo type.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society´11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil



ISOIN

SME

PROFILE from Spain
(14ES0114)

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil

ORGANIZATION EXPERTISE

ENTITY PROFILE

ISOIN (www.isoin.es) is a Spanish SME working in Information Technology field, with deep experienced and a high qualified labour in software development, ambient intelligence, mobile communications and system integration. ISOIN has been developing, for years, high quality products for its customers, doing consultancy services, analysing the ICT market, and providing training to public and private companies. ISOIN workforce is composed by a multidisciplinary team ranging from different areas of engineering (mechanical, telecommunications, computer science, economics and agricultural sciences) being spread out Spain, Italy and Colombia. At the same time, research and development have been one of ISOIN main aims in order to continue improving its solutions and services to its customers. Hence ISOIN has been participating in National and European R&D projects for more than ten years, starting back in FP5 at European level and never stopping since then. ISOIN has several on-going projects in different European calls (FP7, AAL, EUROSTARS), and national ones, developing innovative solutions for adding value to our products and services. Some of these projects and its key-words are:

- FORSAT - A satellite image processing platform for high resolution forest assessment.
- DIET4Elders - A system that collects data regarding the older adult's self-feeding activities and generate a response based on a prescribed diet.
- COIN - Collaboration and Interoperability services based on cloud computing and SaaS.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- T&TNet - Travel & Transport solutions through emotional-social NETWORKING aimed at elderly.

Expertise offered (related to the topic)

The applications of ICT for this topic are quite board:

- Software engineering and software development of platforms, interfaces, DSS, etc.
- For the management of data we can provide Cloud Computing, Data Mining, Big Data, Ontologies, Data mediation etc

ICT can support are:

For traceability ICT could be very valuable and its associated costs are not high. ICT can be used for identification of food products, data input, data transfer, and verification. ISOIN can develop platforms using different kind of technologies like RFID, identifying objects automatically thanks to special tags contactless capable of transmitting data, and other technologies like NFC tags or QR codes for example that has been tested in fisheries.

It is expected in this topic the creation of a Databank with huge amount of data, raw data is useless without analytical tools, so the use of ICT will be crucial for the process of taking many different data sets to produce a single coherent set of information, for its interrelation can be used semantic data models, that enables the information exchange and its autonomous interpretation thanks to meanings (semantics).

Previous FP experience

ISOIN's count on a long track of experience in coordinating and participating in European projects in many different R&D programmes, but specifically in Framework Programme ISOIN has been involved in:

FP5-OLIMP3D: 3D technologies applied to industrial design and modelling of industrial products for SMEs

FP6-CADPIPE: Cad Production Pipeline

FP6-ECOLEAD: European Collaborative networked Organizations LEADership initiative

FP7-COIN: Enterprise Collaboration & Interoperability

FP7-MyUI: Mainstreaming Accessibility through Synergistic User Modelling and Adaptability

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0115)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



OLIVAR DE SEGURA, 2ND GRADE COOPERATIVE

SME

*PROFILE from Spain
(14ES0273)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Olivar de Segura is a local cooperative located in the North East of Jaen in Andalusia, Spain. We specialise in the production, marketing and packaging of Designation of Origin Extra Virgin Olive Oil from the Sierra de Segura area, and also Ecologically Farmed Extra Virgin Olive Oil – as certified by the the Ecological Farming Committee of Andalusia (CAAE - Comité Andaluz de Agricultura Ecológica).

An average production of 20.000.000 pounds, 4.500 farmers, 14 mills scattered within 30,000 hectares of olive groves which produce the highest quality oil farmed from a single mountain-side olive grove, reaching 900m above sea level.

The location, which boasts 214,336 hectares in the Segura, Cazorla and Las Villas Nature Reserve, make it the largest Protected Nature Reserve in the whole of Spain. In 1983, the UNESCO's "Man and the Biosphere" Programme declared this mountainous region a Biosphere Nature Reserve. Subsequently, in 1998, the European Union declared the Nature Reserve an Area for the Special Protection of Birds.

Expertise offered (related to the topic)

Due to their own production they can supply the raw material for the research. OLIVAR DE SEGURA has it is own laboratory completely qualified to make all the analysis under the UE regulation. The Laboratory Department is managed by a Chemical Engineering specialist in technology and chemistry of oils.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

No previous experience in European Framework Programmes.

Role in the project

Research; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0116)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicles

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



SIGMA BIOTECH, S.L.

SME

*PROFILE from SPAIN
(14ES0117)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Sigma Biotech offers a wide range of services focused on developing innovative agri-food projects, thanks to a multidisciplinary team that meets the needs of R & D firms adapted to the food sector.

Experts on solving specific needs, medium-term undertaking projects and engage in strategic plans that lead to the development of a variety of food products that are launched in the market by implementing innovative new food technologies. DESIGN AND DEVELOPMENT OF NEW PRODUCTS.

CHARACTERIZATION OF FOOD.
ADVICE AND MANAGEMENT IN THE PREPARATION OF REPORTS AND PRESENTATION OF GRANTS AND SUBSIDIES FOR R & D BOTH AT REGIONAL, NATIONAL AND EUROPEAN. FUNDING I + D + I

Sigma Biotech collaborates with public and private agencies , offering full management for companies to successfully access to existing financial aid for the development of R + D + i , taking place from document management to technical development so integrity.

Our successes behind us. Some of the projects that your team works are:

- New range of spirits alcoholic dairy adjustable solidified .
- Development new range of soft drinks based on modifications of thixotropy , surface tension and the use of colloidal suspensions .
- Systems emulsifiers based on fatty no additive for stabilizing batters .

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- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .
- New range of products consist of multilayer restructured quince and dairy .
- New range of soft drinks based on natural products.
- New range of oilseeds with different wall mounts .
- Textured products from natural raw materials.
- Enzyme Systems fermented bread with no thermal activation of yeast.
- Chromatic flavored alcoholic beverages , based on the ionization of anthocyanins by acid-base shift
- Ice high melting point surfactant systems based on the reduction of interfacial surface tension.

Expertise offered (related to the topic)

TECHNOLOGICAL SOLUTIONS

Sigma Biotech is specialized in optimizing production processes and manage technology solutions products, both for improving the same as for the correction of any physical alterations chemical, microbiological, organoleptic , rheological ...

The methodology conducted by Sigma Biotech for the development of a project is based on a clear philosophy: to accompany the client at all stages of the same , from idea generation until memory document management , technical development laboratory scale and industrial location :

- Visit the customer premises, thereby acquiring much information as possible and thus facilitating the development of the project.
- Signing a confidentiality agreement between the parties, ensuring the utmost privacy possible.
- Writing a previous projec , based on the research that is to be carried out , for review by the customer and making the appropriate adjustments .
- Presentation of a final draft . Document management into CDTI presentation or in the appropriate body .
- Confirming the proposal and the budget and signing the contract.
- Technical development laboratory and pilot scale and industrial location .
- Memory Presentation results and relevant technical justification to the appropriate body .
- Sigma success Biotech acceptance works if technical report presenting a funding agency, if it is rejected , the customer does not acquire any financial commitment or technical .

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

TECHNOLOGICAL SOLUTIONS

Sigma Biotech, despite being a newly established company , is working in R & D with major companies in the sector in Spain . Currently , is involved in many interesting projects that are giving more interesting conclusions for the future of the industry agroalimentaria . Some of the major projects in which your team works are:

- New range of spirits alcoholic dairy adjustable solidified .
- Developing new range of soft drinks based on modifications of thixotropy , surface tension and the use of colloidal suspensions .
- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .
- New range of soft drinks based on natural products.

Enzyme Systems fermented bread with no thermal activation of yeast.

Chromatic - alcoholic flavored drinks , based on the ionization of anthocyanins by acid-base shift .

Ice - melting high surfactant systems based on the reduction of interfacial surface tension

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products. B [2015] Authentication of food products



ANDALOUSIAN CENTER FOR WINE RESEARCH

R&D Institution

*PROFILE from Spain
(14ES0118)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. B [2015] Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Andalusian Center for Wine Research is a mixed research institute. It is linked to the University of Cadiz and the Andalusian Regional Government. The research areas include:

New technologies in viticulture.

Viability and quality of land.

Wine microbiology.

Biotechnology in the fermenting process.

Technological processes.

Improvement of vinicultural products.

Acetic acid fermentation.

Study of products distilled from wine.

Study of quality indicators used in processes.

Description and quality of vinicultural products.

Development of new viticultural products.

Recovery of byproducts and waste products.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The historical, cultural, economic and legal study of viticultural products.

The chemical and integrated control of phytopathogenic fungi.

The Center has a long experience working with wine and food companies. It has been also involved in research results dissemination and in public presentations about wine and related functional foods.

Expertise offered (related to the topic)

Authentication of wine and wine based products using both spectroscopic (NIR, FT-IR, MS, EN) and chromatographic (HPLC, UPLC, GC, CZE) techniques. Three national and regional grants already related in this topic.

Previous FP experience

Role in the project

Research; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil



*CENTER FOR RESEARCH IN BIOLOGICAL CHEMISTRY AND
MOLECULAR MATERIALS. UNIVERSITY OF SANTIAGO DE
COMPOSTELA*

R&D Institution

*PROFILE from Spain
(14ES0119)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil

ORGANIZATION EXPERTISE

ENTITY PROFILE

The CIQUS - Center for Research in Biological Chemistry and Molecular Materials - belongs to the University of Santiago de Compostela (Spain).

Today, 35 Group Leaders are working at the CIQUS together with 150 people (postdocs, graduate students, technical staff ...) are working at CIQUS to address the center's research objectives.

The scientific activity integrates two vertical thematic areas (Biological Chemistry and New Materials) and three horizontal areas (Synthetic Methodology, Structural Chemistry and Theoretical and Computational Chemistry).

The most relevant european R&D projects are: ERC-2013-AdG-METBIOCAT; ICT-2013-FET Proactive-PAMS; ERC-2010-StG-2DTHERMS; NMP4-2009-MAGNIFYCO.

In particular, the applicant research group has a deep expertise in the combined use of NMR and GC-MS as a source of experimental data. This system has the advantage of ensuring that the data profile for each sample is truly representative of all kinds of metabolites containing (polar, nonpolar, volatile, nonvolatile etc).

Also they have an extensive experience in the identification of metabolites, MRI contrast agents, glicoconjugación and study of protein-molecule interactions or receptor-molecule, SPR, NMR etc.

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Expertise offered (related to the topic)

The applicant research group has a proven experience in the use of NMR and other spectroscopic techniques as well as separation methods, for the study of natural extracts, natural products, small molecules, macromolecules, biopolymers and their mixtures.

It knows well the use of chemometrics and it has been recently involved in its use for the unsupervised characterisation of white wines and identification of the grape of origin involved in fraud or else, using a combination of NMR and CG_MS data to detect the minor components that characterise each grape variety.

The applicant group offers its experience for the application of that methodology to the rapid unsupervised identification of olive oil blends.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products

 *DEPARTMENT OF AGRICULTURAL, FORESTRY AND FOOD SCIENCE (DISAFA) FOOD MICROBIOLOGY AND TECHNOLOGY SECTOR*

R&D Institution

*PROFILE from Italy
(14IT0120)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research activities in Food Microbiology and Technology Sector of DISAFA includes the entire food chain from field to fork, as well as the health-promoting properties of foods and food constituents.

The Food Sector possesses leading capabilities and resources, as well as active national and international networks, and is therefore able to make significant contributions to current food-related global challenges: food supply, food wastage, food quality, differentiation of foods, and novel, convenient and healthy foods. Most of the research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of researches findings to the benefit of industry and society.

Expertise offered (related to the topic)

The science team performs research on food quality and changes in quality parameters related to processing, packaging and storage of foods, especially in relation to wines, dairy products, meat products and plant food products.

With this aim the science team employs chemical-physical (GC-MS, LC-MS ion trap, electronic nose, electronic tongue, texture analyzer) and microbiological (PCR, DGGE) methods to investigate the different foods in order to understand the effect of metabolites on sensory and technological properties.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Also sensory analysis is used for describing and measuring food quality and a trained sensory panel is used to quantify sensory attributes within appearance, odor, taste and texture.

Previous FP experience

The Food Sector has work on WP5 (CRAFT Project) and on WP7 (PATHOGEN Combact Project)

Role in the project

Research; Tech. Development; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



FAICO. FUNDACION ANDALUZA DE IMAGEN COLOR Y OPTICA

R&D Institution

*PROFILE from SPAIN
(14ES0121)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

FAICO is a private non-profit organization located in Seville and Cádiz (Andalusia, Spain), specialist in technological solutions through the application of industrial optics, especially in the areas of Cultural Heritage Conservation and Industrial Process Automation.

Machine vision applications:

- Automation of industrial manufacture, processing and packaging.
- Safety systems in industrial environments
- Quality control/failure detection
- Visual stock control and management systems
- Control of vehicles and industrial robots

Inspection of surfaces

Relevant

R&D

Projects:

A2 TRANSFER: PROMOTION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS IN THE AGROFOOD INDUSTRY IN THE REGIONS OF ANDALUSIA AND ALENTEJO

Programme: POCTEP; Duration: 24 M; Budget: 700.000 € (525.000 FEDER)

GEEWHEZ: MANAGEMENT AND LEISURE MIDDLEWARE FOR THEME PARKS AND ZOO

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Programme: FP7; Duration: 24 M; Budget: 1,635,080 €; Role: Partner

AUTOMATED SYSTEM FOR CLASSIFICATION OF ALEVINS IN FISH FARMS

Programme: Agentes del Conocimiento; Duration: 12 M; Budget: 213,088 €

AUTOMATED PROCESSING PLANT OF CRAYFISHES

Programme: (Private Funding)

RIPE&SWEET: Developing a hyperspectral system to check out the quality of fruits and vegetables

Expertise offered (related to the topic)

FAICO is officially qualified as Technology and Innovation Support Centre by the Spanish Ministry of Science and Innovation, being today a Technology Reference Centre in the industry. FAICO specializes in the fields of Machine Vision, 3D Design/Digitizing, Graphic Arts and Optics Engineering. Our mission is to provide the customers with the best technological solutions tailored to their needs. We apply our resources to develop, implement and optimize industrial processes and products in relevant fields of expertise. The main RTD activities and technological Solutions are as follows:

Machine Vision Applications

3D Design/Digitizing

Printing Technology

Previous FP experience

Geewhez Project (RTD Performer): Development of a surveillance system to control the behavior of visitors during their stay at the Park, the behavior of animals or the detection of escapes especially during the night in Animal Theme Parks. <http://www.geewhez.eu/>

A2Transfer Project: New technology transfer in agro-food industry in Andalusia-Alentejo <http://www.a2transfer.es/>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck 3 Edificio Iris I

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: 41092

City: Sevilla

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products



FAICO. FUNDACION ANDALUZA DE IMAGEN COLOR Y OPTICA

R&D Institution

*PROFILE from SPAIN
(14ES0122)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

FAICO is a private non-profit organization located in Seville and Cádiz (Andalusia, Spain), specialist in technological solutions through the application of industrial optics, especially in the areas of Cultural Heritage Conservation and Industrial Process Automation.

Machine vision applications:

- Automation of industrial manufacture, processing and packaging.
- Safety systems in industrial environments
- Quality control/failure detection
- Visual stock control and management systems
- Control of vehicles and industrial robots

Inspection of surfaces

Relevant

R&D

Projects:

A2 TRANSFER: PROMOTION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS IN THE AGROFOOD INDUSTRY IN THE REGIONS OF ANDALUSIA AND ALENTEJO

Programme: POCTEP; Duration: 24 M; Budget: 700.000 € (525.000 FEDER)

GEEWHEZ: MANAGEMENT AND LEISURE MIDDLEWARE FOR THEME PARKS AND ZOO

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Programme: FP7; Duration: 24 M; Budget: 1,635,080 €; Role: Partner

AUTOMATED SYSTEM FOR CLASSIFICATION OF ALEVINS IN FISH FARMS

Programme: Agentes del Conocimiento; Duration: 12 M; Budget: 213,088 €

AUTOMATED PROCESSING PLANT OF CRAYFISHES

Programme: (Private Funding)

RIPE&SWEET: Developing a hyperspectral system to check out the quality of fruits and vegetables

Expertise offered (related to the topic)

Previous FP experience

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck 3 Edificio Iris I

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Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0123)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department for Meat Technology has special interest in animal species detection based on MALDI-TOF technology.

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produced from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

ongoing nationally-funded projects. The research departments have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

Telephone: 0049 (0) 208 30004 51

Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products

 **KIN FOOD INSTITUTE**

R&D Institution

*PROFILE from Germany
(14DE0124)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our service for the food industry:

For 45 years, we serve our members and customers as the competent and successful one-step service provider in the fields quality assurance, research & development, seminars and technical school. With this, we are unique in Europe.

Our work focuses on product safety, high quality food products and further education for the food industry. The objective of KIN Food Institute is to implement existing knowledge and latest research findings into product development and food analysis so that the quality features of the competitive products provided by our member companies offer the consumers a clear advantage. The further development of practical skills of food technicians and other employees in the food industry ensures a reliable longterm economical success for the enterprises.

Our about 300 member companies take advantage of many member benefits. The membership reflects their commitment to the future of the food trade.

Expertise offered (related to the topic)

Research and Development: Preservation, Product development, Process engineering, Packaging, Extrusion, Minimal Processing

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Quality assurance: National and international food law, Hygiene management, HACCP concepts, Chemistry and microbiology analysis, Sensoriy quality

Previous FP experience

- *Process inspection and development of Cooked and Chilled Food
- *Production and cooling of boiled sausages e.g. product-related package in a controlled enviroment: Basics, boiled sausages sliced, cooling and package
- *Exploration of manufacturing technologies for convience food suitable for microwave
- *Determination of new sterilization parameters to optimize the quality of wet canning based on current knowledge for vegetables, meat and ready meals
- *NIR-MAP combination method to extend the shelf life of foods (boiled sausages) using direct IR surface sterilization and protective gas package with modified radiation geometry

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: 150382-01

Organisation name: Investitionsbank Schleswig-Holstein

Address: Fleethörn 29-31

Postcode: 24103

City: Kiel

Country: Germany

Contact person: Anette Benz

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E-mail: anette.benz@ib-sh.de

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0125)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

Financial support: de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

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Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Finantial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Finantial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Finantial support: European Comission, Directorate-General Justice

Date: 2012-2015, Participants: Universitá Católica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela,Spain

Title: Innovations in functional-chemical speciation in environmental nanotechnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Finantial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavaliability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Previous FP experience

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products

 **ISTITUTO ZOOPROFILATTICO SPERIMENTALE PIEMONTE LIGURIA E VALLE D'AOSTA**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0126)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

The IZSPLVA is an health governmental body founded in 1912. The Institute tasks are to guarantee consumer's health by protecting animal population health and welfare and by improving and controlling food and feed production, thus enhancing the safety levels for food and feed: it supports local and national veterinary services in epidemiological analysis, food hygiene and environmental control activity and research activity. National and local veterinary services, and professional veterinarian, breeders, food manufacturers and consumers too, can address to our Institute for scientific and technical advices, controls and animal health diagnostics. It guarantees high quality standards on compliance with general requirements set by ISO/IEC 17025. To the Institute belong the National Reference center for Biological methods applied to anabolic treatments in food producing animals (CIBA) and the National Reference Center for Animal Neuropathologies (CEA), the National Reference Centre for Surveillance and Monitoring of Animal Feed (CREAA). Projects:- European Network: Concerted Action SRTSE. European network for surveillance and control of TSE in Small ruminants (5th Framework).

- Slovakia - Twinning project for the implementation of a TSE surveillance system in Slovakia: participation as expert on genetics and TSE diagnosis.

- UE - Project : "Renforcement des structures de controles sanitaires, veterinaires et phytosanitaires" -MA 06/AA/HE06.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Netherlands – CIDC, Lelystad: " Research project under the call EMIDA and for the study of analytical sensitivity of all the approved rapid tests against atypical forms of BSE"
- France- Spain- UK- Greece- Germany: "EMIDA-ERANET: "Goat-TSE-Free; Towards breeding of goats for genetically determined TSE resistance".
- Macedonia – Strumica (Skopje). Capacity building of the veterinary service for implementation of EU Acquis - FYROM (2010/244-472)", Publ. ref: EuropeAid/128546/C/SER/MK, for "Training course on animal by products (ABP) and transmissible spongiform encephalopathies (TSE) ".
- Network of Excellence – Prevention, Control and Management of Prion Disease (NEUROPRION).

Expertise offered (related to the topic)

One of the main tasks of IZSPLVA is the development , standardization and validation of biological and analytical methods to investigate the safety and authenticity of food products. Our activity develops in close collaboration with an epidemiological staff with wide expertise in study design and elaboration of data. We develop high throughput screening methods for residues in food (hormonal, SRM...) based on rapid tests, reporter gene assays, biosensors, with particular reference to high quality products and baby food products, in collaboration with national and european SMEs.

We have a wide expertise in standardization and validation of histopathological protocols to detect microscopic changes related to food frauds (illicit hormonal treatments, undeclared substances or storage conditions) and validation of automated software for microscopic image analysis. Wide experience in rapid tests standardization and evaluation (ELISA, immunocromatography, WB) and histological and immunohistochemical diagnostic techniques applied to animal diseases and food safety.

Previous FP experience

Fifth Framework Programme of the European Community for Research, Technological development and Demonstration activities (1998 - 2002):

Network For Surveillance And Control Of Tse In Small Ruminant;

Sixth Framework Programme of the European Community for Research and Technological Development and demonstration activities (2002 – 2006):

NeuroPrion

Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 - 2013):

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

STREP: Specific Targeted Research Project, "Goat BSE: Proposal for improvement of goat TSE discriminative diagnosis and susceptibility based assessment of BSE infectivity in goat milk and meat".

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

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Fax: 0039 011 5669238

E-mail: d.vismara@pie.camcom.it

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products. B [2015] Authentication of food products



LANDALUZ, ASOCIACIÓN EMPRESARIAL ALIMENTOS DE ANDALUCÍA

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0127)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. B [2015] Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

LANDALUZ is an association that gets together around one hundred and ten food producer companies from Andalusia, south of Spain, and gathers close to 70% of the Andalusian business sector. Our aim is to promote Andalusian high quality food products all over the world.

Expertise offered (related to the topic)

LANDALUZ, Asociación Empresarial Alimentos de Andalucía, was born in 1990 as the most important and relevant association in the agrifood sector in Andalusia. We have more that 20 years experience in the sector. We think we can contribute to the topic due to the years we have been working with food producers companies and our knowledge about the sector.

Role in the project

Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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City: Sevilla

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products. A [2014] Olive oil authentication



DCOOP S.C.A.

Large company

*PROFILE from Spain
(14ES0277)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. A [2014] Olive oil authentication.

ORGANIZATION EXPERTISE

ENTITY PROFILE

Dcoop S.C.A. (previous Hojiblanca Group) is a second degree cooperative, whose members are mainly cooperatives, but can also accomodate commercial companies and other partners, as the legal and statutory guidelines. Since Dcoop covers several activities are organized into separate sections: oils, table olives, supplies and services, livestock, cereals and credit section. Regarding the first one, this is the firstly activity and Dcoop is the world's largest producer of olive oil, with average production of over 220,000 tons of olive oil. The R&D activity are related to improve the quality of the products and to the development of new ones. Dcoops collaborates with other relevant companies and reseach centers in national projects to achieve these goals.

Expertise offered (related to the topic)

Dcoop participates in a research project in this subject area in collaboration with other national public bodies and cooperatives.

Role in the project

Research

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products



AINIA

Technological Centre

*PROFILE from Spain
(14ES0293)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

ainia is a technology centre that works to promote the competitiveness of companies through innovation. With over 700 member companies and 1,200 clients, is one of Europe's technology centres with a largest business social base. Its mission is to give value to companies by leading innovation in a responsible and committed way. It work for the following sectors: Food; Environment and Energy; Packaging; Chemical products, cleaning and disinfection; Cosmetics and body care; Pharmaceuticals and biomedicine.

Ainia priority lines are: Food & Health; Food quality and safety; Design and industrial Production; Sustainability; and Consumer.

ainia technology centre offers solutions covering the entire typology of innovation needs of small, medium and large companies:

R&D&I:

- Product formulations: development, improvement, etc.
- Ingredients and raw materials: identification, validation, etc.
- Food, health: functionality of active ingredients, cell lines, bioavailability, nutritional improvement, etc.
- Security, authenticity and control: products, raw materials, processes.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Hygiene and hygienic design: equipment, facilities, processes.
- Packaging: design, materials, packaging systems, package-product interaction.
- Industrial process automation
- ICT applications to industrial and management processes
- Pre-normative research
- Sustainability: use of by-products and waste, biogas, carbon footprint, water footprint, etc.

Consulting and Management support

Analysis, laboratories, control

Industrial processes: BIOPROCESS; SCF TOLL MANUFACTURING; SUPPORT FOR INDUSTRIAL PROCESSES; Industrial-scaled.,

With 13,000 m2 of facilities, ainia has 10 pilot plants, 8 laboratories, 10 classrooms and training rooms, Consumolab (centre for analysis of consumer behavior through sensory analysis) and Altex (high-tech plant to provide a wide range of services based on supercritical CO2 extraction).

With a highly qualified team (over 70% of the staff are university graduates and PhD), multidisciplinary, confidentiality and flexibility to develop customized solutions tailored to the needs of each client are different elements of ainia as part of its corporate culture.

Expertise offered (related to the topic)

Consumers acceptance: From our strong know-how and the experience to investigate consumer's attitudes and perceptions about specific products, concepts or product information we can contribute in this topic to research and understand the impact of new developed methods for olive oil authentication related with the confidence of consumers and markets. Our olive oil sensory panel assesses olive oil samples according with the EU Regulation. Consumolab (ainia's trademark for sensory analysis) is accredited by the Spanish National Accreditation body (ENAC) under standard EN 17025 to conduct sensory tests. Expertise in projects related with sensory methods and their standardization as the aforementioned CALIBSENSORY project.

Instrumentation and Automation: Sensors development to measure quality and safety of food matrices by means of fast and non destructive techniques. Application technologies for the olive oil are: infrared spectroscopic methods in UV, VIS, NIR and MIR range and volatile compound detection by e-nose and z-nose (fast and portable chromatography). Combining these techniques we can provide a digital fingerprint of each sample of olive oil with information of chemical and sensorial quality. We have experience in previous research projects focused in different food matrices, but

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

also with olive oil ("Development electronic sensors to evaluate the quality of the olive oil" funded by the National Food Research Institute).

Chemical analysis: We have a wide know-how in the areas of food fraud, food quality, nutrients characterization, food contamination, food spoilage, preservation, bioactive compounds, etc. Many olive oil samples are characterised every year to determine: their quality as described in the R(CE)2568/91 (fatty acids, sterols, tocopherols, cis-trans,...) their acceptance in contaminants as R(CE)1881/2006 (PAHs, pesticides, heavy metals,...) or their bioactive compound like CoQ10 or Omega 3, etc. The chemical laboratory is equipped with modern analytical instruments (LC-MS/MS, GC-MS/MS, RNM, Mass spectroscopy, ICP-OES, etc.) as well as a complete set of classical techniques and equipment giving to ainia a powerful analytical capacity. The department of analysis is frequently involved in method development and optimisation of new applications and their later validation to ensure their correct performance in the working ranges, as point out by the fact that many of our analytical methodologies are certified under the ISO 17025. We have a board experience in EU research projects; concretely in oils we were leaders of the analytical WP in OPTIMOILs FP6 project.

Application of Information and Communication Technologies (models and software tools) in the traceability and food safety domain. Our envisaged activities related to the topic could be: Generation of a databank for olive oils in electronic format, harmonising the domain concepts existing in the analytical methods, quality parameters, authenticity issues. Development of specific services to integrate real-time results from ad-hoc analytical devices into a common global IT platform to share/communicate within the food chain. Generation of interoperable software services for enabling the collaboration of food actors and improving fraud prevention and action in a coordinated way. Generation of interactive services for consumers at the point of sale to check product information regarding different parameters (origin, composition, eco-compatibility...). Pilot testing of the system. Coordination and deployment of specific validation methodology for testing, execution and evaluation of the new technology.

Previous FP experience

Main projects related with this issue: Traceback (FP6), QUBIC.

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: SEIMED

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-14-2014/2015: Authentication of food products

 **FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG**

R&D Institution

*PROFILE from Germany
(14DE0323)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to other markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

Expertise offered (related to the topic)

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personnel in biological and instrumental analytics. IME, together with its partners in the Fraunhofer Food Chain Management Alliance (FCM), is able to provide comprehensive solutions

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

in this area for all stake-holders in the food chain and finally to the consumer. The department counts with L2 and S1 facilities, and its certified to conduct GLP studies. Our labs comprise, e.g. high resolution HPLC-MS/MS, GC-MS/MS for trace-, and GC-O/MS for aroma analysis needed for metabolomics and proteomics studies, and a genetic analyzer (sequencing, T-RFLP, ARISA PCR), real time PCR and DGGE for genomic studies.

Our experience in the authentication field:

- Animal species differentiation, for authentication of meat based products
- Cashmere authentication, for woolen products (China)
- Yeast species differentiation, for spontaneously fermented wines.
- Wine metabolomics

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



CEIA3 AGRIFOOD CAMPUS OF INTERNATIONAL EXCELLENCE

R&D Institution

*PROFILE from Spain
(14ES0363)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ceiA3, Agrifood Campus of International Excellence, is the largest Spanish center for research & specialized development. It is made up by the Universities of Almeria, Cadiz, Cordoba, Huelva and Jaen, and headed by the University of Cordoba, the National Scientific Research Council (CSIC), the Institute for Agricultural and Fisheries Development of Andalusia (IFAPA), and it has also achieved close cooperation with technology parks and a growing number of companies with innovative objectives.

The ceiA3 advances towards the future fully oriented to EU innovation policies based on the European H2020 strategy, on the EIP of Productive and Sustainable Agriculture, and also on the new challenges of the Common Agricultural Policy, whose strategy appears clearly defined towards the bioeconomy and sustainable agriculture.

Currently, ceiA3 has 285 research groups specialized in agriculture and the agrifood industry, with a human potential of over 4,000 people, divided into 16 thematic lines according to their affinity, from which 141 groups emerge with their own light, meeting excellence and scientific production criteria. They comprise 7 research clusters covering strategic areas of knowledge. Since 2009, the number of ceiA3 projects in International Research & Development Programmes totals 267, with a 237% increase in the last year.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We promote the achievement of agreements with private companies and participation in open calls for public institutions, both national (INIA, Andalusia, MECD, etc.) and European (FP7, Horizon 2020, etc.), through which we aspire to ensure the future viability of this project, making it possible to continue our work without necessarily depending on funding through the CEI program calls.

These main lines of research and activity are:

- Biodiversity and the Environment
- Bioenergy
- Integrative Biology
- Food Quality and Safety
- Sustainable Territorial, Rural y Tourism Development
- Agricultural Economics, Policy and Law
- Soil Erosion, Conservation and Fertility
- Rural and Agrifood Engineering
- Plant Breeding and Health
- Animal Breeding and Health
- Nutrition and Health
- Chemistry and Agrifoods
- Water Resources
- Food Technology and Oenology
- Agricultural and Environmental Technologies
- Information Technologies and Biocomputing

Expertise offered (related to the topic)

The ceiA3 Campus of Excellence focuses its efforts on the agrifood sector, as guarantor of a safe food supply for the population and a key strategic axis. It links the community to the territory, generates economic activity and employment, and plays a crucial role for the maintenance of rural territories and the environment. In this crucial sector, the ceiA3 develops an essential potential which allows for the innovation of the Agrifood industry from the technological, organizational and commercial point of view.

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

The lines of research of our scientific groups cover all the fields related to Agrifood, from economical or legislative aspects to those which are related to the improvement and optimization of resources for either the vegetal or animal production. Our research teams work with the most innovative equipment and techniques in search for creative solutions for the Agrifood industry. Food quality and safety, as well as and its control during the whole production process, from the soil to the dish, are one of the key priorities in the work of our research groups.

In working to assure that these priorities are met, it is our understanding that University excellence requires, on one hand, the attraction and consolidation of talent and, on the other, collaboration with generators of knowledge that complement the university's training and research. For this purpose we are continually working towards the development of bilateral cooperation with international institutions in the Agrifood sector. For years we have collaborated, in teaching and research, with universities of excellence in Agribusiness, like those of California-Davis (U.S.), Concepción (Chile), Técnica de Lisboa (Portugal), Montpellier 2 (France), Wageningen (Netherlands), among others.

Likewise, we are developing agreements, between the Inter-American Institute for Cooperation on Agriculture (IICA) and the ceiA3. Agreements were also established with the INNOVAGRO Network in Latin America, with institutions for the development of the agrifood sector, with active participation in forums and definition of future strategies for collaboration. We have established projects involving not only participation in platforms linked to the agrifood sector, such as Food for Life, sustainable agriculture or Triptolemos platform, but also collaboration agreements with multiple major institutions , such as the Spanish Ministry of Agriculture, or Agropolis. Also, agreements with the Ministry of Agriculture and Environment of the Junta de Andalucía (Andalusian Government), the CIBERObn Institute, the FAO of the United Nations, the Spanish Agency for the Defense of the Competence and Parque Sur Uruguay, among others.

One of the primary objectives is to reinforce the partnership between research and producers and to promote the transfer of technology. In this way, the ceiA3 has established collaborations with national companies, and different types of institutions (national and regional government institutions, Interprofessional Organizations, Rural Development Groups, or D.O's, for example) seeking collaboration and knowledge transfer, but also the creation of university-industry synergies that allow us to look to Europe for the capture of funds, to encourage business development through research, enabling us to meet the sector's challenges.

As an example of our potential, a brief description of our Partnerships with companies and institutions for the development of validating and harmonizing analytical methods and quality parameters that specifically address technical authenticity issues; particularly those of olive oil, though there are other sectors involved as well:

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1. With Interprofesional del Aceite de Oliva Español (The Spanish Interprofessional organization of olive oil). Project title: "Identification of enabling technology to complement the EU analytical method called "Tasting Panel" in virgin olive oils".

This project involves the participation of six ceiA3 research groups and it is an ambitious partnership initiative of between Sector agents, Regional and National Administrations, and Research Centers and University.

2. With Sovena España, S.A. Project title: "Identification of the spectral fingerprint of different types of olive oil using ion mobility spectrometry".

Previous FP experience

With the Junta de Andalucía, Agency for Protection of Competition:

- "DEVELOPMENT OF A DATABASE QUALITY AGRIFOOD PRODUCTS" (34/2012) (in progress).

With Universidad de Córdoba. IPAFA, Junta de Andalucía:

- "Sensores MEMS y NIRS-imagen para el análisis no destructivo e in situ de productos animales y vegetales". P09 AGR-5129". Entidad financiadora: Proyecto de Excelencia. Convocatoria 2005. Profª ANA GARRIDO VARO. Total funding: 250.931,68 euros

OTHER PROJECTS: please note these are EXAMPLES, as the complete list includes 267+ ceiA3 international projects since 2009

- Title: Farm Animal Proteomics. COST Action FA1002. European Cooperation in the Field of Scientific and Technical Research. Duration, 2010 -2015. Resp. David Eckersall (University of Glasgow), Juan José Garrido Pavón (Management Committee) AGR-231

- Title: EADGENE. European Animal Disease Genomics Research Group for Animal Health and Food Safety. FP7 KBBE.2010.4-01. Duration, 2011 -2013. Resp. Juan José Garrido Pavón. AGR-231

- Title: A systems approach to minimize Escherichia coli O157:H7 food safety hazards associated with fresh- and fresh-cut leafy greens NIFSI nº 97170. USDA/CSREES/NIFSI Grants. Duration: 2007-2011. Resp. M. Doyle, Gonzalo Zurera (UCO). AGR-170

- Title: Cost Action "Feed For Health" (Fa0802). FP7-UE Duration 2008-2012 Representante COST (España), Ana Garrido Varo AGR-128

- Title: A systems approach to minimize Escherichia coli O157:H7 food safety hazards associated with fresh- and fresh-cut leafy greens NIFSI nº 97170 USDA/CSREES/NIFSI Grants Duration: 2007-2011 Resp. M. Doyle, Gonzalo Zurera (UCO) AGR-170

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- Title: EUI-2008-00114: Development of ultra-sensitive detection methods and plant nano-vaccines for the fungi *Fusarium* spp. using nanotechnological devices. AGR-252
- Title: Signalling circuitry controlling fungal virulence: identification and characterization of conserved and specific fungal virulence genes as common antifungal targets (ARIADNE) FP7-PEOPLE-ITN-237936 (Marie Curie Initial Training Networks). Duration 2009-2013. Resp. A. Di Pietro BIO-138
- Title: Host-induced gene silencing by RNAi in fungal and oomycete pathogens for healthier and safer food (RNAiGuard) Plant KBBE EUI2009-03942 Unión Europea-MICINN (ERA-NETs) Duration 2010-2013. Resp. A. Di Pietro.BIO-138
- Title: Transcriptional networks controlling virulence in filamentous fungal pathogens (TRANSPAT) Pathogenomics BIO 2008-04479-E Unión Europea-MICINN (ERA-NETs), Duration, 2009-2012. Resp. A. Di Pietro.BIO-138
- Title: Plant Proteomics in Europe (COST Action FA 0603). Duration 2007-2011. Resp. Jesús Jorrín Novo BIO-269
- Title: Alterations in membrane composition and function with calorie restriction NIH 1R01AG028125-01A1 (USA) Key investigator Resp. John J. Ramsey (University of California at Davis) Resp. JM Villalba BIO-276
- Title: Mechanisms Underlying Coping Strategies and Welfare In Farmed Salmon, Sea Bass and Sea Bream. FP7-KBBE. Duration 2010-2014. Resp. José Antonio Muñoz Cueto. RNM-216

Role in the project

Research; Training; Tech. Development; Other

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Partnership Profile

SFS-14-2014/2015: Authentication of food products



COVAP

Large company

*PROFILE from SPAIN
(14ES0368)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

COVAP is the largest agroindustry cooperative in Andalucia and is one of the most important in Spain, founded in 1959. The business scope is mainly focused on dairy products, animal feed, and meat products: 1) milk, milk shakes, enriched milks, 2) sheep, cow and goat cheese, 3) Iberian Ham and sausages, and 4) Iberian pig, beef and lamb meats. COVAP has an integrated production system based on an eco-sustainable model.

Its pastureland use rotational farming methods, meaning that the land is used to grow cereals for a period, and then used for livestock grazing. This kind of relationship between crop and animal farming is only possible due to a balance in the use of natural resources.

COVAP integrated production chain involves livestock, feeding, industrialization, commercialization and consumer (markets). The main advantage using this model is to have the control over the different steps till reach the end product and implement solutions from farm to fork. Each action at different levels will affect the rest in the chain, following up the quality and traceability of each end product. Moreover, COVAP has set up its own technical support service to get closer to members and to provide them with everything they need to improve their production conditions. A skilled team of professionals provides a highly personalised service to members by carrying out a lot of field work. There are now four main support areas: 1) Rural Engineering and the Environment, 2) Hygiene and Health, 3) Reproduction, and 4) Comprehensive Advisory Services to help members to take advantage with the support of Public Administration.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Expertise offered (related to the topic)

Iberian hams are recognised as one of the highest food quality products, produced using low-impact farming practises, where animals are fed free on the Pasture land eating only acorns, grass and other natural products. Iberian hams are aged for 16–18 months, where pieces are controled with careful and skilled work. The consumer concern about certifications of provenance is increasing, and COVAP would be involved in technology development which contribute to provide evidence of authenticity, which will contribute to protect this high standard product from other of minor quality in the market.

Previous FP experience

COVAP has participated in the following International Research Projects: BRIDGE Project (6th FP) where the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. Currently, COVAP is involved in a Research Project from 7th FP Called BIOFOS which attempt to develop a high-added value multi-analyte biosensor for quality control in food industry. Under the figure of EUREKA, COVAP is running the Project INFORMED, which ddresses online monitoring & control of production in the meat processing industry. Moreover, COVAP has huge experience in developing research projects financned by its own resources and with National funding, in areas such as Food quality, Food safety, Animal Health Status and Production Improvement, or New Products/Processes Development.

Role in the project

Tech. Development; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products



*CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING
AND OLIVE OIL*

Technological Centre

*PROFILE from SPAIN
(14ES0377)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

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c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the process of olive oil production, in both the agronomic phase and olive mill process, as well as chemical and organoleptic characteristics of olive oil. Specific expertise in the topic is based in the following background and technological tools:

a. Application of NIR on-line technology for the detection of markers of quality and/or fraud in the olive oil

b. Application of the expert panel test for sensory analysis and consumer panel test to determine consumer preferences

c. Methods of sensory analysis complementary to the panel test.

d. Shelf-life studies for olive oil based on type of packaging, storage conditions, ... etc.

e. Communication, dissemination and transfer of research results

f. Management and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field.

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and

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aUTHENTICity: innovative tools to support European consumers, producers and policy-makers.
Submitted

FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain.
Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil



CENTIV GMBH

SME

*PROFILE from Germany
(14DE0312)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance
- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program).

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

HighTech Europe: the first european network in food processing, www.hightecheurope.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

City: Osnabrueck

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Partnership Profile

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0353)*

TOPIC OF INTEREST

TOPIC

SFS-14-2014/2015: Authentication of food products. A [2014] Authentication of olive oil

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusinesses. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

CITOLIVA, one IDEALFOOD partner, is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

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1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

PROPOSED ACTIVITIES

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).

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- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAF00N. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0128)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

The RTD Centre expertise with regards to novel food processing lies in the development of previous national and international R&D projects where safe and healthy innovative food products have been elaborated.

CTAEX has standardized the elaboration at pilot scale of a wide range of food products. In this way, CTAEX has already researched into dairy, fish & meat and fruits & vegetables kind of elaboration processes with special attention to the development of innovative solutions for those consumers with special needs. Final conservation of the food products have been achieved from both conventional and cutting edge technologies e.g. pasteurization/sterilization, modified and active packaging, ultra-freezing, dehydration or employment of natural preservatives among others.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society '11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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Postcode: 06006

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future

 **DANISH TECHNOLOGICAL INSTITUTE**

Technological centre

*PROFILE from Denmark
(14DK0269)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Danish Technological Institute is a privately held non-profit organization offering a wide range of competences to provide the Danish Industry with the latest knowledge in their fields. The food science department at DTI, service partner for the Danish food and feed industry. The department offers consultancy services and is highly involved in R&D projects with the food and feed industry. The focus is primarily on improved utilization of natural resources, process optimization and product development. The competences in the department include physical and chemical characterization, encapsulation technologies and sensory evaluation. This include rheological methods for characterization of texture and viscoelastic properties, melting properties, emulsion properties, water and oil/fat binding capacity and description and testing of particles. The laboratory has many years of experience in ad hoc chemical analysis and development of methods for identifying and quantification of chemical volatile and non-volatile compounds. In addition to the HPLC and GC-MS analytical equipment, the laboratory possesses a full olfactory set-up for identifying odor-active compounds. Work in relation to oxidation and other changes in connection with deterioration of products are performed e.g., by use of accelerated oxidation studies. Encapsulation techniques include spray drying equipment and fluid bed. Sensory laboratories are internationally accredited, and the staff is highly experienced within the field.

In addition to food science DTI can participate with competencies from a number of fields like microbiology, biomass exploitation, extraction of valuable compounds focused on industrial

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

implementation and optimization of processes; all within environmentally friendly and healthier solutions.

DTI is currently involved in a number of national and international projects. DTI is involved in several projects focusing on the exploitation of biomass e.g. a Danish innovation consortium Natural Ingredients and Green Energy, focused on the exploitation of biomass using sustainable purification technologies. Other interesting projects just started are the biorefinery for soy protein side stream and the extraction and food application of new vegetable proteins, both national projects. The department of biomass and biorefinery have pilot plant facilities for the production of feed and ingredients for the feed industry. At these facilities there are two air separation units to fractionate proteins from starch and other grain ingredients. The principle for the equipment is centrifugation dividing fine particles by their weight and size. Different mill types for grinding material to different particle size distribution are available. For production of feed the facilities hold pelleting equipment from single pellet scale to full scale test production equipment together with two different extruders to produce food, fish and pet feed. In connection with the extrusion equipment there is a vacuum coater, which can coat oil on feed pellets. During the last 5 years the department of biomass and biorefinery developed strong knowledge in the field of sea weed pre treatment and conditioning as well as international expertise in the field of fermentation and bioenergy.

DTI is currently involved in a number of national and international projects. DTI is involved in several projects focusing on the exploitation of biomass e.g. a Danish innovation consortium Natural Ingredients and Green Energy, focused on the exploitation of biomass using sustainable purification technologies. Other interesting projects just started are the biorefinery for soy protein side stream and the extraction and food application of new vegetable proteins, both national projects. We are also involved in big Danish and European projects in the field of sea weed conditioning and proteins for feed.

Expertise offered (related to the topic)

Through work in national projects the food science department at DTI has gained significant insight into the challenges of preparing food quality protein from novel sources. In these projects know-how on aspects of new proteins like bioactivity, economic viability of new solutions/products and environmental impacts has been obtained. DTI can offer chemical and physical analysis of novel proteins, development of extraction methods from various protein sources, amino acid composition of the extracted fractions, formulation of the proteins to achieve functional ingredients, sensory evaluations of novel products. In addition DTI can assist in protein fractionation (dry), feed production, calculation of feed composition and nutrition, protein extraction, grinding and

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fermentation. Furthermore, DTI has the experience to assist in managing the project or managing relevant work packages.

Previous FP experience

Broad company-wide experience with applying, managing and participating in both FP6 and FP7 projects. The department of food science at DTI is currently involved as a partner in the FP7 project PILOT-ABP under the FP7 waste topic.

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



EUROESPES BIOTECNOLOGÍA

SME

*PROFILE from Spain
(14ES0129)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ebiotec is a Spanish company founded in 2001, focused on research and development of innovative nutraceutical and technology services applied to health and human and animal consumption, allowing early diagnosis, disease prevention and individualized treatment. R&D activities:

- Molecular mechanisms of neuroinflammation.
- Receptors and signal transduction mechanisms.
- Development and function of neural networks.
- In vitro models of cultured neuronal embryonic cells.
- Models of in vitro primary neurons, microglia and astroglia cell cultures.
- In vitro models of tumor cell lines.
- In vivo models of neurodegeneration.
- In vivo models of inflammation.
- In vivo tumorigenesis models.

Expertise offered (related to the topic)

Biotechnology department at Ebiotec has been working since 1995 to the development of nutraceuticals from marine organisms. Many articles have been published on international journals,

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

and different nutraceuticals have been developed for human consumption and are already in the national and international market. One of the main interest, related to the SFS-15-2014 topic, is to look at the possibility of a better use of discarded fisheries materials. We are already in contact with different Galician private companies and public research institutes interested in obtaining new proteins (mainly collagen, the main structural protein of the various connective tissues in animals) from discarded parts of tuna fish (skin, bones, heads) in line with EU fishing policy.

Previous FP experience

Ebiotec is involved in the seventh framework programme (theme 2): Food, Agriculture and Fisheries, and Biotechnology. Project full title: Exploring Marine Resources for Bioactive Compounds: From Discovery to Sustainable Production and Industrial Applications". Project acronym: MAREX.

Role in the project

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0290)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



UNIBIO A/S

SME

PROFILE from Denmark
(14DK0130)

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

UniBio A/S is a biotech company focused on research and experimental development and a leading company within fermentation. UniBio and its founder have developed and patented the technology of turning natural gas into a highly concentrated and environmentally sound protein product, UniProtein, used in compound animal feeds. UniProtein outperforms fishmeal by 1-2% in terms of essential amino acids and has a protein content of 71%. UniBio's core strategy is to develop the process technology, sell licenses to other companies, service the licensees and their production facilities and enter off-take agreements with licensees without domestic production to sell the protein in the EU market. The company's commercialisation strategy is targeted at markets with inexpensive and readily available natural gas. The U-Loop technology was proven at small scale at the Technical University of Denmark and the documented productivity level makes the U-Loop technology extremely profitable if employed at industrial scale. UniBio is currently in the process of upscaling the U-Loop technology in Denmark. To this end, UniBio intends to construct a 100-litre U-Loop plant, which is to eventually be upgraded to a 30m3 U-Loop plant

Expertise offered (related to the topic)

UniBio has developed an advanced fermentation technology securing optimal utilisation of gasses mixed into liquids (high mass transfer). A culture of bacteria is fermented in a so-called U-loop fermentor using a medium based on methanol or methane. The process is patented. The U-loop fermentation process can be used for products of lysine, ethanol and all fermentation processes involving yeast or bacteria where gasses need to be added in the process.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Role in the project

Research; Training; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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Country: Denmark

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - DIFFERENTIATED & BIOFUNCTIONAL FOODS**

R&D Institution

*PROFILE from Denmark
(14DK0131)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research activities in Aarhus University's Department of Food Science encompass the entire food chain from field to fork, as well as the health-promoting properties of foods and food constituents.

The Department of Food Science possesses leading capabilities and resources, as well as active national and international networks, and is therefore able to make significant contributions to current food-related global challenges: food supply, food wastage, sustainable food production under changed climatic conditions, and increased occurrence of lifestyle-related diseases. Additional focus areas include food quality, differentiation of foods, and novel, convenient and healthy foods.

Most of the research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

The research creates basic and application-oriented knowledge on animal and plant-based food products and promotes a sustainable and safe food production with regard to food supply, consumers, industry and current legislation.

The five science teams:

Plant, Food and Sustainability - Plant, Food and Climate - Differentiated and Biofunctional Foods - Food Chemistry and Technology Food - Metabolomics and Sensory Science.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

The science team leader is engaged in research in meat quality including responses/status of the live animals prior to slaughter affecting processes post mortem when muscle is turned into meat. Areas of special interest include oxidative status, stress, metabolically active compounds, and plant metabolites.

She carries out animal experiments combined with model systems of e.g. primary culture cells to investigate mechanisms related to the focus areas.

Presently she works on two projects investigating 1) mobility of water in relation to water holding capacity, including effects of creatine supplement and 2) effects of plant metabolites on cellular stress. The science team's activities focus on how to improve product quality, add new positive features to well-known food products or develop new types of food product.

The topics include evaluation of product quality parameters such as the tenderness of meat and the taste of vegetables, fruit and milk, and bioactive and nutritionally important constituents of meat, dairy and plant products. The team's activities also include new ways of producing foods such as in vitro meat or vertical farming systems, as well as the exploitation of plant medicines and plant-produced pesticides.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE -
FOOD CHEMISTRY AND TECHNOLOGY**

R&D Institution

*PROFILE from Denmark
(14DK0132)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor: Has since 1993 worked in food research with two main focus areas: 1) food structure and functional properties, i.e. gelling, foaming, emulsification of especially eggs, egg products and dairy products related to primary production and processing, and 2) organic food quality with focus on value adding of differentiated foods. Holds experience in project management from several research projects, teaching in Food Science at KU-Life and in Molecular Nutrition and Food Technology at AU. Is responsible of the master course 'Structure and Functionality', and supervises ph.d.- and master students.

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

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Postcode: DK-8830

City: Tjele

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Denmark

Contact person: Anders Skeem

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future

 **AARHUS UNIVERSITY DEPARTMENT OF FOOD SCIENCE
FOOD, METABOLOMICS AND SENSORY SCIENCE**

R&D Institution

*PROFILE from Denmark
(14DK0133)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

The group is working with metabolomics applications in food and nutrition research. Activities include metabolite profiling of food items including vegetables, fruits, dairy products and fresh meat and meat products with emphasis on the health potential, storage-induced changes and quality of the food items. The metabolomics activities also include analyses on biofluids (blood, urine, saliva) and tissue samples. Biofluid-based and tissue-based metabolomics is applied in research projects to elucidate the impact of diet on metabolism and health markers in relation to human diet and human health. As examples, impact of intake of intact and modified (hydrolysis) dietary protein and different dietary protein sources has been elucidated by applying metabolomics on biofluid and tissue samples collected from animals fed the different dietary proteins. Biofluid-based and tissue-based metabolomics is also applied to elucidate metabolism in husbandry animals in relation to production systems and other pre- and post-slaughter factors. As examples, metabolomics has been applied on blood samples collected from pigs to elucidate the impact of exposure to pre-slaughter stress and introduction of a resting period prior to slaughter and metabolomics has been applied on pork from different crossbreeds in order to elucidate relation between meat metabolites, meat quality and sensory perception.

The analytical platform contains LC-MS- and NMR-based techniques including magic angle spinning probes for measurements on semi-solid materials such as foods and low-field NMR relaxometry for determination of water mobility, water-protein interactions and water-binding properties of foods.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

Within metabolomics , biomarker identification, muscle physiology, meat science.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE,
FACULTY OF SCIENCE AND TECHNOLOGY**

R&D Institution

*PROFILE from Denmark
(14DK0134)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Food Chemistry and Technology at Department of Food Science at Aarhus University has a long and strong portfolio of projects with protein stability, free radical chemistry, oxidative changes and functionality of proteins. Facilities include a pilot dairy plant, differential scanning calorimeter, confocal microscope, rheometer, Texture Analyzer, tensiometer, Rheorox, Malvern mastersizer, and equipment for mass spectrometry (GC-MS, GC-MS Q-ToF, LC-MS, Maldi-TOF/TOF, LC-MS iontrap), electron spin resonance spectroscopy, ultrasound treatment, and confocal microscopy.

Expertise offered (related to the topic)

Structure, interactions and oxidative changes of proteins in protein blends. We can follow changes of physio-chemical properties and shelf life of proteins in blends. It could potentially be included in an application with protein blends before an animal or human intervention.

An oxidomic approach using immunoprecipitation, ESR and MS together with specific quantitative analysis can be used to follow oxidative and heat induced changes. Loss of indispensable amino acids will be part of that characterization and will be performed according to the guidelines of FAO, 2013. GC-MS and LC-MS/UV will be used for that purpose. Structural interaction can be followed by biophysical methods like fluorescence spectroscopy, FT-IR, and confocal microscopy. Associate professor's scientific focus:

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Is to understand free radical reactions where model studies are used to describe the mechanisms behind oxidative processes in proteins as well as in protein-/lipid models. The models are particularly used to study how oxidation affects the protein structure and how the protein structure influences different oxidation processes (e.g. light, enzymes and transition metal ions). Accessibility of proteases is also used as a measurement of changes of the protein structure (at primary and higher protein structure levels) after oxidation. Knowledge from model studies is carried on to dairy products such as milk, powder and cheese where the oxidation processes are described as direct measurement of primary oxidation products (e.g. free radicals and protein and lipid peroxides) and secondary oxidation products (e.g. dityrosine, protein carbonyl at amino acid level and lipid carbonyls).

Is to study metabolites in bio fluids and different food matrices in order to understand the effect on different food items when they are administrated to animals and humans.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



*ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES*

R&D Institution

*PROFILE from Germany
(14DE0135)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produced from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The research departments have good contacts to food SMEs, which can be contributed to future projects.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

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Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future

 *INSTITUTE OF SCIENCES OF FOOD PRODUCTION (ISPA),
NATIONAL RESEARCH COUNCIL (CNR)*

R&D Institution

*PROFILE from Italy
(14DE0136)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Torino Territorial unit of ISPA is located at the Department of Veterinary Sciences, Faculty of Veterinary Medicine of the University of Turin.

The Torino Territorial unit of ISPA has a long tradition in research concerning two main lines, the first one aimed at improving the nutritional quality of feed and animal origin foods (milk, meat and fish) and at achieving safer products by monitoring and removing potentially toxic components. The second research line deals with protein identification and characterization and, more recently, in the development and application of Proteomic techniques (2D, protein sequencing, Mass spectrometry on protein and peptides, characterization of posttranslational modifications).

The staff is involved in several projects funded by Regione Piemonte, national projects funded by MIPAAF and MIUR, and European collaborations on different topics: natural antioxydants, food quality, food and bacterial proteome, discovery of new food allergens, hypoallergenic food discovery.

The laboratories include electrophoresis tools, GelDoc imaging system, spectrophotometer, microplate reader for ELISA, incubators, laminar and chemical hoods, VersaDoc imaging system, Nanodrop 1000 and UV/visible spectrophotometers, DDGE system, HPLC (QP8000 Shimadzu, 1100 Agilent) and nano HPLC (nano 1100 Agilent) systems, amino acid analyzer system, a protein microsequencer (492 Applied Biosystems), a MALDI TOFTOF (Bruker), two ion traps (LCQ, Thermo and XCT Agilent).

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

The Torino Territorial unit of ISPA carried out scientific research, also with the cooperation of foreign scientific institutions, as part of the livestock sector, particularly in the nutrition of ruminants (cattle and horses) and monogastric (rabbit, poultry, fish). The main areas of research include set-up of animal feeding trials for the evaluation of new animal feeds and carry-over of bio-active molecules in animal products for human nutrition (meat, milk, eggs). Moreover, researchers are involved in the development of methods for the characterization of new sources of vegetable protein, essential fatty acids and antioxidants for animal feed.

The Torino Territorial unit of ISPA has also a long tradition in research aiming at the improvement of the nutritional quality of feed and animal origin foods (milk, meat and fish) and at achieving safer products by monitoring and removing potentially toxic components.

Previous FP experience

VI Framework Programme - Integrated Project:

The Prevalence, Cost and Basis of Food Allergy Across Europe EUROPREVALL .

V Framework Programme:

Food allergy risk evaluation based on improved diagnosis, allergens and test methods FAREDAT.

Role in the project

Research; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

Telephone: 0039 011 5669239

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Fax: 0039 0115669238

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO MARKET	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future

 **KIN FOOD INSTITUTE**

R&D Institution

*PROFILE from Germany
(14DE0137)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our service for the food industry:

For 45 years, we serve our members and customers as the competent and successful one-step service provider in the fields quality assurance, research & development, seminars and technical school. With this, we are unique in Europe.

Our work focuses on product safety, high quality food products and further education for the food industry. The objective of KIN Food Institute is to implement existing knowledge and latest research findings into product development and food analysis so that the quality features of the competitive products provided by our member companies offer the consumers a clear advantage. The further development of practical skills of food technicians and other employees in the food industry ensures a reliable longterm economical success for the enterprises.

Our about 300 member companies take advantage of many member benefits. The membership reflects their commitment to the future of the food trade.

Expertise offered (related to the topic)

Research and Development: Preservation, Product development, Process engineering, Packaging, Extrusion, Minimal Processing

Quality assurance: National and international food law, Hygiene management, HACCP concepts, Chemistry and microbiology analysis, Sensoriy quality

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

- *Process inspection and development of Cooked and Chilled Food
- *Production and cooling of boiled sausages e.g. product-related package in a controlled environment: Basics, boiled sausages sliced, cooling and package
- *Exploration of manufacturing technologies for convenience food suitable for microwave
- *Determination of new sterilization parameters to optimize the quality of wet canning based on current knowledge for vegetables, meat and ready meals
- *NIR-MAP combination method to extend the shelf life of foods (boiled sausages) using direct IR surface sterilization and protective gas package with modified radiation geometry

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: 150382-01

Organisation name: Investitionsbank Schleswig-Holstein

Address: Fleethörn 29-31

Postcode: 24103

City: Kiel

Country: Germany

Contact person: Anette Benz

Telephone: 0049 431 9905-3494

Fax: 0049 431 9905-63494

E-mail: anette.benz@ib-sh.de

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



RESEARCH GROUP "DEGRADACION DE TOXICOS ORGANICOS" (BIO191)

R&D Institution

PROFILE from Spain
(14ES0138)

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Tino Krell heads the Laboratory of bacterial Sensing and Signal Transduction (<http://krell-laboratory.com/>) at the CSIC Institute Estación Experimental del Zaidín (<http://krell-laboratory.com/>). The laboratory studies modes by which sensor proteins detect environmental signals and ITC plays a central role in their research. Using ITC the laboratory has established many collaborations to study diverse molecular interactions.

Expertise offered (related to the topic)

Precise characterization of molecular interaction using microcalorimetry

To understand the molecular mechanisms of biological processes, knowledge on the molecular interaction of participating molecules is essential. Isothermal titration calorimetry (ITC) is now recognized as the Gold standard technique to study the molecular interaction between two ligands. An ITC experiments permits the determination of the full set of thermodynamic binding parameters in a single experiment (association constant K_A , dissociation constant K_D , enthalpy change, entropy change and Gibbs free energy change) and can provide useful information on the binding stoichiometry. An ITC experiment consists in a titration of one ligand with another and heat changes resulting from binding processes are measured. Ligands are both in solution and there is no need for their chemical modification. Since any type of binding causes heat changes ITC permits to analyze all types of molecular interaction.

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Tino Krell is a recognized microcalorimetry expert with more than 50 research articles in this field. He has used ITC to study the interaction between two different proteins (for example Daddaoua et al. (2013) Nucleic Acids Res. In press, Busch et al. (2009) J. Biol. Chem. 284:10353), proteins and DNA (Lacal et al. (2008a) J. Mol. Biol. 384:1037, Lacal et al. (2008b) J. Mol. Biol. 376:325, Guazzaroni et al. (2007) J. Mol. Biol. 369:927, Krell et al. (2007), J. Mol. Biol. 369:1188), proteins and small ligands (for example Garcia-Fontana et al. (2013) J Biol Chem. 288, 18987, Rico-Jiménez et al. (2013) Mol. Microbiol. 88,1230, Pineda-Molina et al. (2012) PNAS 109:18926, Arce-Rodríguez et al. (2012) Environ Microbiol. 14:702, Fillet et al. (2011) PNAS 108(37):15372, Busch et al. (2007) PNAS 104:13774, Lu et al. (2010) Lu et al. Genes Dev. 24:2556, Lacal et al. (2006) PNAS 103:8191) or peptides and small ligands (Santamaría-Hernando et al. (2012) PLoS One. 7:e40698). Since ITC is an universally applicable technique there is almost no limitation as to the choice of ligands and there is significant amount of literature that has described the ITC study of small molecules, RNA, carbohydrates, lipids, sugars etc.. In addition ITC is a universal assay for enzymatic activities (see Todd & Gomez (2001) Anal Biochem. ;296:179-87).

Previous FP experience

External advisor of the Euroneut-41 FP project on the development of an European anti-HIV vaccine (total budget 12 million Euros)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: María Fernández Santa-Cruz

E-mail: maria.fernandezsantacruz@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0139)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

Financial support: de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Finantial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Finantial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Finantial support: European Comission, Directorate-General Justice

Date: 2012-2015, Participants: Universitá Católica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela,Spain

Title: Innovations in functional-chemical speciation in environmental nanotechnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Finantial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavaliability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0140)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

Our clients are national leaders in several productions with a lot of demanding: dairy cows, poultry and pigs.

Our technical department, composed of agricultural engineers and veterinarians advises many farms technologically national and UE leading, helping to optimize the nutritional food and the innovative solutions, more efficient and more environmentally friendly.

Previous FP experience

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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City: Ferrol

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future



CENTIV GMBH

SME

*PROFILE from Germany
(14DE0315)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance
- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program).

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

Previous FP experience

BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

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HighTech Europe: the first european network in food processing, www.hightecheurope.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

City: Osnabrueck

Country: Germany

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future

 **FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG**

R&D Institution

*PROFILE from Germany
(14DE0319)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to another markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

Expertise offered (related to the topic)

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personal in biological and instrumental analytics. IME, together with its partners in the Fraunhofer Food Chain Management Alliance (FCM), is able to provide comprehensive solutions in

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

this area for all stake-holders in the food chain and finally to the consumer. The department is run by a large staff-pool with decades of experience of all instrumental analytical skills in the food and environmental sectors.

We possess a wide range of instrumentation from UPLC coupled to HR-MS/MS to GC-MS/MS with multiple possibilities for automated sample preparation and a 750 MHz NMR for structure elucidation. We have a strong background in the analysis of complex matrices and the development and application of multi-methods. With the generation of large composition and chemical profiles, using chemometrics, we are able to add to any analytical task regarding food authenticity. With the miniaturization of analytical systems, moreover we seek to imply such measurements into the production process.

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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Country: Germany

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Fax: +49 208 3000429

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-15-2014: Proteins of the future



AGAM LTD

SME

*PROFILE from Israel
(14IL0325)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Agam Ltd is the owner of knowledge and capabilities to manufacture a safe, unique, native, insoluble collagen platforms from jellyfish as an alternative to commercial collagen. In the medical sector, the company uses this platform to develop wound dressing pads and skin substitutes. The product line can be used for the medical, cosmetic, aesthetic, food and beverages markets.

Expertise offered (related to the topic)

the company successfully completed biocompatibility tests and is gearing up for human clinical trials.

Previous FP experience

none

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

Organisation name: Israel-EU R&D Directorate

Address: Industry House, 29 Hamered St.

City: Tel Aviv

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Israel

Contact person: Uri Fishelson

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Fax: 972-3-5170020

E-mail: uri@iserd.org.il

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future



CHAM FOODS

SME

*PROFILE from Israel
(14IL0329)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

Working together with sustainable growers and farms for the supply of fruits and vegetables and herbs.

Receipt and handling of naturals in large scale.

Supportive in-house laboratory testings through all parts of processing.

Processing including concentration, cold and hot break, aseptic filling.

Drying processes such as spray drying and freeze drying in pilot and commercial scale.

Natural raw materials dried as powder or sliced or concentrated.

Expertise offered (related to the topic)

Previous FP experience

None

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Israel-EU R&D Directorate

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City: Tel Aviv

Country: Israel

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-15-2014: Proteins of the future



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0354)*

TOPIC OF INTEREST

TOPIC

SFS-15-2014: Proteins of the future

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

EXPERTISE OFFERED (related to the topic)

Our Postharvest Department has a large expertise in:

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Search for alternative technologies to thermal pasteurization and / or minimally processed products comfortable.
- New technologies for improving shelf life.
- Feasibility studies fresh cut and ready-to-eat food.
- Nutritional aspects of strawberry and other red fruits as marketing argument.

Our "Center for Innovative fresh cut and ready-to-eat Food Products" is a processing plant with a semi-industrial processing capacity of 1.5 t. day.

PROPOSED ACTIVITIES

Our Department of Agronomy could focus in studying new sources vegetal proteins. On the other hand, our Postharvest Department could focus on:

- Development of new final products
- Participation of SMEs and Test Market
- Measure of cost-efficient and resource-efficient alternatives to traditional sources

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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City: Sevilla

Country: Spain

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E-mail: cristina.cabeza@juntadeandalucia.es

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0141)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

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Expertise offered (related to the topic)

The RTD Centre expertise with regards to novel food processing lies in the development of previous national and international R&D projects where safe and healthy innovative food products have been elaborated.

CTAEX has standardized the elaboration at pilot scale of a wide range of food products. In this way, CTAEX has already researched into dairy, fish & meat and fruits & vegetables kind of elaboration processes with special attention to the development of innovative solutions for those consumers with special needs. Final conservation of the food products have been achieved from both conventional and cutting edge technologies e.g. pasteurization/sterilization, modified and active packaging, ultra-freezing, dehydration or employment of natural preservatives among others.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society '11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

Address: Avda. de Elvas, s/n

Postcode: 06006

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Badajoz

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



DERETIL VITATECH S.L.U.

Technological Centre

*PROFILE from Spain
(14ES0142)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Deretil Vitatech is the Deretil's group technological company. Deretil group is worldwide lider company in the development and production os semisynthetic antibiotic side chains (based in non natural chiral aminoacids like D-parahydroxyphenilglycine, D-Phenylglycine, D-Dihydrophenylglycine, D-Valine, etc).

From 2009 Deretil group started a growth strategy based in new bussiness in the fields of agronutrients (special fertilizers like micronutrients chelates, aminoacids, biestimulants, etc), and in 2013 started the development of active ingredients to be used in cosmetics, food and feed (natural antioxidants and other interesting molecules).

Relevant R&D projects are:

- Natural products extraction and purification (membranes, chromatography, etc). Examples like polyphenols, steviosides, tannins, anthocyanins, etc.
- Biomolecules obtained by fermentation to be applied in Agriculture (biofertilizars and/or biopesticides), nutrition and/or cosmetics.

Expertise offered (related to the topic)

We can be considered as a partner in the following activities:

- Special fertilizers design and formulation. Liquid and dried form.

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- Spray drying granulation.
- Process scale-up from lab to plant.
- Growth stimulants, elicitors, phytostrongthener with high antioxidant polyphenolic compounds, etc, based in natural extracts and microorganisms.
- Pilot and production plant suitable for demonstration stages in projects, including fermentation, microfiltration, chromatographic purification...
- Biotechnology, synthesis and analytical laboratories.

Previous FP experience

CADOX Project: "A coupled advanced oxidation-biological process for recycling of industrial waste waters containing persistent organic contaminants"

Project reference: EVK1-CT-2002-00122

Funded under: FP5-EESD

Country: Spain

Info: <http://cordis.europa.eu/projects/EVK1-CT-2002-00122>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

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Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



EUROESPES BIOTECNOLOGÍA

SME

*PROFILE from Spain
(14ES0143)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ebiotec is a Spanish company founded in 2001, focused on research and development of innovative nutraceutical and technology services applied to health and human and animal consumption, allowing early diagnosis, disease prevention and individualized treatment. R&D activities:

- Molecular mechanisms of neuroinflammation.
- Receptors and signal transduction mechanisms.
- Development and function of neural networks.
- In vitro models of cultured neuronal embryonic cells.
- Models of in vitro primary neurons, microglia and astroglia cell cultures.
- In vitro models of tumor cell lines.
- In vivo models of neurodegeneration.
- In vivo models of inflammation.
- In vivo tumorigenesis models.

Expertise offered (related to the topic)

Biotechnology department at Ebiotec has been working since 1995 to the development of nutraceuticals from marine organisms. Many articles have been published on international journals,

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

and different nutraceuticals have been developed for human consumption and are already in the national and international market. One of the main interest, related to the SFS-16-2014 topic, is to use our in vitro and in vivo ageing models to look at the development of new nutraceuticals for elderly.

Previous FP experience

Ebiotec is involved in the seventh framework programme (theme 2): Food, Agriculture and Fisheries, and Biotechnology. Project full title: Exploring Marine Resources for Bioactive Compounds: From Discovery to Sustainable Production and Industrial Applications". Project acronym: MAREX.

Role in the project

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - DIFFERENTIATED & BIOFUNCTIONAL FOODS**

R&D Institution

*PROFILE from Denmark
(14DK0144)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research activities in Aarhus University's Department of Food Science encompass the entire food chain from field to fork, as well as the health-promoting properties of foods and food constituents.

The Department of Food Science possesses leading capabilities and resources, as well as active national and international networks, and is therefore able to make significant contributions to current food-related global challenges: food supply, food wastage, sustainable food production under changed climatic conditions, and increased occurrence of lifestyle-related diseases. Additional focus areas include food quality, differentiation of foods, and novel, convenient and healthy foods.

Most of the research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

The research creates basic and application-oriented knowledge on animal and plant-based food products and promotes a sustainable and safe food production with regard to food supply, consumers, industry and current legislation.

The five science teams:

Plant, Food and Sustainability - Plant, Food and Climate - Differentiated and Biofunctional Foods - Food Chemistry and Technology Food - Metabolomics and Sensory Science.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Expertise offered (related to the topic)

The science team leader is engaged in research in meat quality including responses/status of the live animals prior to slaughter affecting processes post mortem when muscle is turned into meat. Areas of special interest include oxidative status, stress, metabolically active compounds, and plant metabolites.

She carries out animal experiments combined with model systems of e.g. primary culture cells to investigate mechanisms related to the focus areas.

Presently she works on two projects investigating 1) mobility of water in relation to water holding capacity, including effects of creatine supplement and 2) effects of plant metabolites on cellular stress. The science team's activities focus on how to improve product quality, add new positive features to well-known food products or develop new types of food product.

The topics include evaluation of product quality parameters such as the tenderness of meat and the taste of vegetables, fruit and milk, and bioactive and nutritionally important constituents of meat, dairy and plant products. The team's activities also include new ways of producing foods such as in vitro meat or vertical farming systems, as well as the exploitation of plant medicines and plant-produced pesticides.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - DIFFERENTIATED & BIOFUNCTIONAL FOODS**

R&D Institution

*PROFILE from DK
(14DK0145)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Satellite cells and sarcopenia in relation with diet and exercise. Senior researcher's research area is muscle biology (muscle metabolism and development, and growth) in relation to meat quality (Water holding capacity, colour, pH, and sensory quality). Has developed a primary muscle cell cultures, which he uses as a model for muscle to study regulation of muscle development and growth, muscle metabolism and some meat quality traits. Results from muscle primary cell cultures support studies on whole animals where he is interested in foetal muscle development, growth, metabolism and meat quality in the whole chain from conception to consumption. Furthermore, part of his research is dealing with welfare diseases based on changed muscle metabolism e.g. type II diabetes and foetal programming of muscle development, growth and metabolism in response to sub-optimal nutrition.

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: DK-8830

City: Tjele

Country: Denmark

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E-mail: as@agropark.dk

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - FOOD, METABOLOMICS AND SENSORY SCIENCE**

R&D Institution

*PROFILE from Denmark
(14DK0146)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research field is within sensory and health quality of plant based food in relation to raw material, storage and processing. Sensory analysis comprises consumer preferences and descriptive sensory analysis using a trained sensory panel. Health quality comprises compounds such as glucosinolates, carotenoids, phenolics and polyacetylenes, which are related to aspects of especially the sensory quality but also the human nutrition and health.

Expertise offered (related to the topic)

Alteration of taste and smell (sensory perception) in different population groups (e.g type 2 diabetes patients and elderly), contribution to development of nutritious food that match the alteration in sensory perception in elderly and humans suffering of chronic diseases.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE -
FOOD, METABOLOMICS AND SENSORY SCIENCE**

R&D Institution

*PROFILE from Denmark
(14DK0147)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

The group is working with metabolomics applications in food and nutrition research. Activities include metabolite profiling of food items including vegetables, fruits, dairy products and fresh meat and meat products with emphasis on the health potential, storage-induced changes and quality of the food items. The metabolomics activities also include analyses on biofluids (blood, urine, saliva) and tissue samples. Biofluid-based and tissue-based metabolomics is applied in research projects to elucidate the impact of diet on metabolism and health markers in relation to human diet and human health. As examples, impact of intake of intact and modified (hydrolysis) dietary protein and different dietary protein sources has been elucidated by applying metabolomics on biofluid and tissue samples collected from animals fed the different dietary proteins. Biofluid-based and tissue-based metabolomics is also applied to elucidate metabolism in husbandry animals in relation to production systems and other pre- and post-slaughter factors. As examples, metabolomics has been applied on blood samples collected from pigs to elucidate the impact of exposure to pre-slaughter stress and introduction of a resting period prior to slaughter and metabolomics has been applied on pork from different crossbreeds in order to elucidate relation between meat metabolites, meat quality and sensory perception.

The analytical platform contains LC-MS- and NMR-based techniques including magic angle spinning probes for measurements on semi-solid materials such as foods and low-field NMR relaxometry for determination of water mobility, water-protein interactions and water-binding properties of foods.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Expertise offered (related to the topic)

Within metabolomics , biomarker identification, muscle physiology, meat science.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Interveg - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

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Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **FRANKENFOERDER FORSCHUNGSGESELLSCHAFT MBH**
R&D Institution
PROFILE from Germany
(14DE0148)

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Frankenfoerder Forschungsgesellschaft (FFG) was established in 1991. The FFG is based in Luckenwalde (Brandenburg) and has a scientific department in Berlin. Applied research in the field of agriculture, veterinary medicine and nutrition is the main focus of the non –profit Research Foundation. With permanently employed staff, a team of freelance collaborators and a wide network of national and international partners the FFG perceives itself as a link between science and practice. The FFG has a broad spectrum of research and development expert knowledge and carries out applied research and development for the benefit of small and medium-size-businesses. The know-how for healthy food and innovative products as well as the creation of optimal conditions for healthy animals could and can be applied in different research projects, for example:

- Development of senior-focused, healthy convenience foods on the basis of traditional formulae as well as customer-friendly packaging for these products
- Development of an innovative process to produce functional poultry meat products under addition of folic acid, vitamin B and vitamin D
- Development of a gentle process for washing fruits and mushrooms using ultra sound to prevent consumer hazards by food-related germs

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

In the constant process of change, especially in agriculture, veterinary medicine and nutrition, new challenges for innovative products and techniques are required. The Frankenfoerder Forschungsgesellschaft provides the know-how for the industry.

Core competencies nutrition and food safety:

- Process, technology and product development for the food industry
- Development of new products in the interest of a healthy diet
- Development of a diet suitable for children and senior for community facilities
- Development of practice-orientated examination methods for foodstuff and their introduction into quality control process of food manufactures

Because of the auditing of farming enterprises (QS system) the Frankenfoerder Forschungsgesellschaft has a wide network of practice partners and application enterprises. The FFG uses the synergy of its core competencies to develop optimal custom-designed solutions and provides applied research particularly for the SME sector.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Contact person: Nora Anton

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Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0149)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produced from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The research departments have good contacts to food SMEs, which can be contributed to future projects.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

Telephone: 0049 (0) 208 30004 51

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E-mail: na@zenit.de

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0150)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

Financial support: de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

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Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Finantial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Finantial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Finantial support: European Comission, Directorate-General Justice

Date: 2012-2015, Participants: Universitá Católica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela,Spain

Title: Innovations in functional-chemical speciation in environmental nanotecnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Finantial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavaliability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



AINIA

Technological Centre

*PROFILE from Spain
(14ES0292)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

ainia is a technology centre that works to promote the competitiveness of companies through innovation. With over 700 member companies and 1,200 clients, is one of Europe's technology centres with a largest business social base. Its mission is to give value to companies by leading innovation in a responsible and committed way. It work for the following sectors: Food; Environment and Energy; Packaging; Chemical products, cleaning and disinfection; Cosmetics and body care; Pharmaceuticals and biomedicine.

Ainia priority lines are: Food & Health; Food quality and safety; Design and industrial Production; Sustainability; and Consumer.

ainia technology centre offers solutions covering the entire typology of innovation needs of small, medium and large companies:

R&D&I:

- Product formulations: development, improvement, etc.
- Ingredients and raw materials: identification, validation, etc.
- Food, health: functionality of active ingredients, cell lines, bioavailability, nutritional improvement, etc.
- Security, authenticity and control: products, raw materials, processes.
- Hygiene and hygienic design: equipment, facilities, processes.

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**European R&D projects -
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Sector Group Agrofood

- Packaging: design, materials, packaging systems, package-product interaction.
- Industrial process automation
- ICT applications to industrial and management processes
- Pre-normative research
- Sustainability: use of by-products and waste, biogas, carbon footprint, water footprint, etc.

Consulting and Management support

Analysis, laboratories, control

Industrial processes: BIOPROCESS; SCF TOLL MANUFACTURING; SUPPORT FOR INDUSTRIAL PROCESSES; Industrial-scaled.,

With 13,000 m2 of facilities, ainia has 10 pilot plants, 8 laboratories, 10 classrooms and training rooms, Consumolab (centre for analysis of consumer behavior through sensory analysis) and Altex (high-tech plant to provide a wide range of services based on supercritical CO2 extraction).

With a highly qualified team (over 70% of the staff are university graduates and PhD), multidisciplinary, confidentiality and flexibility to develop customized solutions tailored to the needs of each client are different elements of ainia as part of its corporate culture.

Expertise offered (related to the topic)

Regarding this specific topic, ainia can contribute with the following competencies and capacities:

1. From the point of view of new products development our experience in HELENA and CARNISENUSA project, can contribute to the research on design and nutritional improvement of specific foods (meat and dairy products) specially designed to specific population groups (adolescents). This methodology background gives New Products department the capacity to investigate the specific nutritional and sensory requirements of elderly people
2. Our experience on design of balanced diets for specific population groups studying the requirements of different population segments regarding nutritional requirements and food acceptance, preference and choice
3. Know-how for the development of new health products adapted to any population group
4. From our strong know-how and the experience to develop and functional evaluation of new foods we can contribute in this topic researching new dietary strategies to prevent and treat malnutrition in the elderly as well as evaluating the role of the nutrients and bioactive compounds through their bioavailability and interactions analysis

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5. From the point of view of the consumer's acceptance, our strong know-how and the experience to investigate consumer's attitudes and perceptions about specific products, concepts or product information we can contribute in this topic to research and understand the impact of new developed methods for olive oil authentication related with the confidence of consumers and markets. Our olive oil sensory panel assesses olive oil samples according with the EU Regulation. Consumolab (ainia's trademark for sensory analysis) is accredited by the Spanish National Accreditation body (ENAC) under standard EN 17025 to conduct sensory tests. Expertise in projects related with sensory methods and their standardization as the aforementioned CALIBSENSORY project.

Previous FP experience

Projects: HELENA

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: SEIMED

Organisation name: Ainia

Address: C/Benjamín Franklin, 5-11, Parque Tecnológico

Postcode: 46980

City: Paterna, Valencia

Country: Spain

Contact person: Julio Carreras Llisterri

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E-mail: Jcarreras@ainia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



CHAM FOODS

SME

*PROFILE from Israel
(14IL0327)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

Working together with sustainable growers and farms for the supply of fruits and vegetables and herbs.

Receipt and handling of naturals in large scale.

Supportive in-house laboratory testings through all parts of processing.

Processing including concentration, cold and hot break, aseptic filling.

Drying processes such as spray drying and freeze drying in pilot and commercial scale.

Natural raw materials dried as powder or sliced or concentrated.

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

Organisation name: Israel-EU R&D Directorate

Address: Industry House, 29 Hamered St.

City: Tel Aviv

Country: Israel

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Contact person: Uri Fishelson

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Fax: 972-3-5170020

E-mail: uri@iserd.org.il

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-16-2015: Tackling malnutrition in the elderly



SURGENIA, CENTRO TECNOLÓGICO ANDALUZ DE DISEÑO

Technological Centre

*PROFILE from SPAIN
(14ES0371)*

TOPIC OF INTEREST

TOPIC

SFS-16-2015: Tackling malnutrition in the elderly

ORGANIZATION EXPERTISE

ENTITY PROFILE

SURGENIA, Technological Centre of Andalusian Design, is a non-for-profit foundation, listed as an Agent of Knowledge. It is the only Technological Centre of Design in Spain and it is supported by more than 20 trustees from varying strategic sectors.

The core activity of the centre is to create value through a deep and continuous analysis of trends and applicable technology, taking into consideration people's expectations, preferences and experiences.

This analysis is followed by a set of recommendations, aiming to improve competitiveness through R+D+i projects that use design as a tool for innovation and differentiation. To do so, our organization counts with multidisciplinary teams of researchers, designers, engineers, manufacturers and/or distributors.

The centre is specialized in the Agrofood Industry and has developed many projects supporting the sector and contributing to widen the knowledge about the consumer behaviour related to agrofood products, improve the companies' competitiveness and foster the development of novel packaging and product categories. Among these projects worth to mention the Research and Publication of Gastrotrends: Packaging design and consumption trends report on agrofood products ISBN 978-84-614-6712-9. As well as our participation in the project AGRO+: Morocco/Spain Cooperation Platform for the strengthening of the innovation capabilities in the agrofood industry. Recently we have also fostered the project CONSERVAPESCA, focused on the research of new uses of marine species and

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development of new product categories for retail, or the project COLDFRUIT, in process of the development of a new preservation system that allow fruit to be on a frozen point suitable for fast unfrozen processes in vending machines without losing its attributes.

Expertise offered (related to the topic)

Surgenia is experienced in the research of behaviours, cultural, demographic and socioeconomics effects on food consumption and lifestyle thanks to our Trends Observatory that monitors variables and extracts conclusions on a regular basis. This tool enables us to focus very efficiently in the main concern of the topic and could provide highly valuable insights related to this part of the research. Thanks to Surgenia's participation in the foundation Agropolis Cordoba (as trustee), we count on access to facilities where elderly people is being assisted. This point means that we can develop tests, observation etc. in the field and also allow us to put into practice a pilot or prototype of the diets and recommendations extracted in the project with the aim of proving their effects on well-being of the elderly. Regarding the cooperation with third countries part of our team counts on experience in Japan and The United States, which can be an asset in the proposal due to the recommendation of cooperating with countries such as those mentioned above. Surgenia is a Technological Centre very close to industry and specially to SMEs, in the last years we have supported R&D Projects and managed a large number of innovation projects for the development of new products and services. Our clients network in the agrofood industry belongs to sectors such as fruit and vegetables, traditional confectionary, vegetal preserves, fish-based processed food, meat, dairies etc. Finally, in order to maximize the project's impact, we can provide means to reach the target social groups and stakeholders in general, involving them all along the project's life; hence, they will be able to better acknowledge its benefits.

Previous FP experience

We have been part of the following consortium for 7th Framework Programme, although we have not been granted until the moment: CLEAR (Consumer Labelling Expertise Advice Research), for the topic KBBE.2012.2.1-01: Role of health-related symbols and claims in consumer behaviour; also in the consortium EuroFoodNET - 2030: Back to the Future for Traditional Food in Europe. A Network for 2030, addressing the topic KBBE.2013.2.3-02 Network for the transfer of knowledge on traditional foods to SMEs.

Role in the project

Research; Tech. Development; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

City: Sevilla

Country: Spain

Contact person: Leonor Camacho Cascajo

Telephone: 00 34 955 00 74 45

Fax: 0034 955 05 85 87

E-mail: leonor.camacho@juntadeandalucia.es

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0151)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

The RTD Centre expertise with regards to novel food processing lies in the development of previous national and international R&D projects where safe and healthy innovative food products have been elaborated.

CTAEX has standardized the elaboration at pilot scale of a wide range of food products. In this way, CTAEX has already researched into dairy, fish & meat and fruits & vegetables kind of elaboration processes with special attention to the development of innovative solutions for those consumers with special needs. Final conservation of the food products have been achieved from both conventional and cutting edge technologies e.g. pasteurization/sterilization, modified and active packaging, ultra-freezing, dehydration or employment of natural preservatives among others.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

Address: Avda. de Elvas, s/n

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: 06006

City: Badajoz

Country: Spain

Contact person: María García Rosa

E-mail: maria.garcia@fundecyt-pctex.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

SFS-17-2014: Innovative solutions for sustainable novel food processing



FOUNDATION OF AUXILIARY INDUSTRY OF AGRICULTURE, TECNOVA FOUNDATION

Technological Centre

PROFILE from Spain
(14ES0288)

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Foundation for Agricultural Auxiliary Technologies (TECNOVA Foundation) is a Centre of Technology Innovation Support on a national level. Furthermore, is a non-profit making private institution having legal personality currently made up of 125 companies belonging to the agricultural industry and auxiliary services, postharvest and packaging as well as administrations, entities privates and publics.

In TECNOVA, we count on an innovation department responsible for the administrative and economic management of R&D&I projects which are developed in the centre. Since 2001, date in which the Foundation was developed, the projects have been overcome the hundred.

Research and services department

Tecnova rely on two important research zones:

- Horticultural Production Technology (TPH)
- Postharvest and Packaging Technology (TPE)

Expertise offered (related to the topic)

Postharvest and Packaging Technology

Postharvest consulting

- Advice regarding the implementation of the APPCC system.

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- Optimisation and monitoring of food quality management systems.
- Innovation studies on agro-industrial processes (preservation, transport conditions etc.)
- Market research (new products, trends etc.).
- Electronic fruit: determination of major points of impact during handling and design optimisation.
- Studies on respiration rates (metabolic study on plants).
- Characterisation of varieties.

Non-destructive analysis techniques

- Measurement of biofunctional compounds in fruit and vegetable products.
- Characterisation of diverse attributes of fruit and vegetable products and in real time.
- Calibration and validation of quality parameters in fruit and vegetable products using NIT technology (⁰Brix, pH, firmness, moisture, etc).

Packaging studies

- Product shelf life: microbiology and sensory quality.
- Optimization of packaging conditions.
- Modified atmosphere evolution inside containers for fresh and ready prepared products.
- Physical-chemical parameter evolution: texture, colour, firmness, etc.
- Biofunctional compound evolution.
- Nutritional composition evolution.

Ready-prepared and ready-cooked products.

- Establishing shelf life.
- Microbiological control.
- Nutritional composition.
- Packaging optimization.
- Intelligent packaging.
- Labeling studies.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

"Reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products" "FERTIPLUS". This is a collaborative research project within the cooperation and thematic zone of agriculture, nutrition and biotechnology, KBBE.2011.1.2-02, from the 7th Framework Program (FP 7) FP7. Tecnova participates as a leader of a work package focused on the life cycle analysis. "Lactic acid bacteria and other microorganisms antagonists as preservatives in minimally processed fruit and vegetables" "BIOSAFOOD" funding by Eurotransbio under ERA-NET scheme FP7 tool for research, technological development and demonstration of the European Union.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing

 **DANISH TECHNOLOGICAL INSTITUTE**

Technological centre

*PROFILE from Denmark
(14DK0270)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Danish Technological Institute is a privately held non-profit organization offering a wide range of competences to provide the Danish Industry with the latest knowledge in their fields. The food science department at DTI, service partner for the Danish food and feed industry. The department offers consultancy services and is highly involved in R&D projects with the food and feed industry. The focus is primarily on improved utilization of natural resources, process optimization and product development. The competences in the department include physical and chemical characterization, encapsulation technologies and sensory evaluation. This include rheological methods for characterization of texture and viscoelastic properties, melting properties, emulsion properties, water and oil/fat binding capacity and description and testing of particles. The laboratory has many years of experience in ad hoc chemical analysis and development of methods for identifying and quantification of chemical volatile and non-volatile compounds. In addition to the HPLC and GC-MS analytical equipment, the laboratory possesses a full olfactory set-up for identifying odor-active compounds. Work in relation to oxidation and other changes in connection with deterioration of products are performed e.g., by use of accelerated oxidation studies. Encapsulation techniques include spray drying equipment and fluid bed. Sensory laboratories are internationally accredited, and the staff is highly experienced within the field.

In addition to food science DTI can participate with competencies from a number of fields like microbiology, biomass exploitation, extraction of valuable compounds focused on industrial

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

implementation and optimization of processes; all within environmentally friendly and healthier solutions.

DTI is currently involved in a number of national and international projects. DTI is involved in several projects focusing on the exploitation of biomass e.g. a Danish innovation consortium Natural Ingredients and Green Energy, focused on the exploitation of biomass using sustainable purification technologies. Other interesting projects just started are the biorefinery for soy protein side stream and the extraction and food application of new vegetable proteins, both national projects.

Expertise offered (related to the topic)

Through work in national projects the food science department at DTI has gained significant insight into the challenges of food processing. In these projects know-how on aspects of new processes and product characteristics has been obtained. DTI can offer chemical, physical and sensory analysis of the functionality of novel food/products, formulation of new products etc. Furthermore, DTI has the experience to assist in managing the project or managing relevant work packages.

Previous FP experience

Broad company-wide experience with applying, managing and participating in both FP6 and FP7 projects. The department of food science at DTI is currently involved as a partner in the FP7 project PILOT-ABP under the FP7 waste topic.

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

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City: Tjele

Country: Denmark

Contact person: Anders Skeem

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



DTU FOOD

Technological Centre

*PROFILE from Denmark
(14DK0152)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Center for Hygienic Design (CHD) at the Technical University of Denmark (DTU) aspires to participate closely with research organisations and companies in research and development projects. In addition, the center offers consultancy in trouble-shooting and problem-solving in the food and biotech industry, and assists in testing and development projects within the scope of the center. Furthermore, the center contributes to the master research programme Food Technology and offers predefined or tailor-made courses in hygienic design.

Expertise offered (related to the topic)

The risk of bacteria and production residues in the processing equipment is greater, if it is not produced by hygienic principles or the cleaning programme is not designed or dimensioned for the process. Scaling up of production is challenging and requires an understanding of process design, flow and cleaning. By focusing on testing and certification of equipment early in the design process of a new process line (or the renovation of an existing one), you avoid the problem later on when you realize you should have made other choices. We can help you make the right choice. Center for Hygienic Design is open to a wide range of projects within research, education and consultancy. Whether you represent a manufacturer of process equipment interested in certification according to EHEDG guidelines or you are looking for a qualified partner for projects in relation to hygienic design, we are ready to assist and consult you in the development of hygienic solutions.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The center offers test for cleanability and hygienic design of process equipment, examination of production facilities to minimize and prevent cross-contamination of the food product, and targeted courses in hygienic design.

The center has extensive experience with microbiological test methods, handling of difficult-geometry equipment and has for number of years dealt with CFD and evaluation of surface roughness and food contact materials. The center is located in a research environment and combines practical and theoretical knowledge from many disciplines and institutes.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



RESEARCH AND DEVELOPMENT FUNCTIONAL FOOD CENTRE (CIDAF)

Technological Centre

PROFILE from Spain
(14ES0153)

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

CIDAF is a new technology research centre of excellence in the field of functional foods. Its mission is to be as a catalyst for research and development of novel functional foods and bioactive components that will enhance health. The Centre is managed via a Foundation (Fundación CIDAF) whose Board comprises the University of Granada, AGAPA (the Farming and Fisheries Management Agency of the Agriculture Ministry, Andalusian Regional Government), Abbott Laboratories, S.A., Aceites Maeva, S.A., Biotmicrogen, S.L. (Grupo Biot), Cervezas Alhambra, S.A. (Grupo Mahou San Miguel), and Miguel García Sánchez e Hijos S.A. CIDAF specializes in the design and application of innovative solutions to address emerging market demand for enriched and functional food and dietary supplements for different population groups to reach a healthy balanced diet and provide nutrients and bioactive compounds that may otherwise not be consumed in sufficient quantities. Its overall aim is to achieve technology transfer through the involvement of different research teams in programs that respond to industry needs; hence its philosophy is based on the creation of opportunities for transfer and technological innovation in the fields of Pharmaceutical and Alimentary Biology, bringing together experts with extensive experience in related sectors. CIDAF is unique within Spain, thanks to its multidisciplinary approach and its capacity to provide integral solutions to meet scientific, technological and market needs for the functional food sector.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Related with the topic, CIDAF has successfully developed more than xx research contract with cooperatives, food companies and with the Andalusian Regional Government. Its Production Pilot Plant provides the research infrastructure to evaluate novel processes and products for preparing bioactive functional ingredients. CIDAF's infrastructure includes novel environmentally friendly extraction techniques and drying, purification and stabilization technological processes to obtain enriched extracts on bioactive compounds for development of nutraceuticals, functional foods and dietary supplements as part of clinical trials and market tests. The centre is confident of being able to develop new products that facilitate health improvements in the population thanks to new foods that are safe, healthy, convenient and appealing. Some CIDAF's key areas of research and development are production of functional ingredients and foods by novel environmentally friendly technologies, biological activity and bio-availability of functional ingredients, regulations on functional food and nutritional supplements and marketing of functional foods. For this purpose, the centre dispose of different research areas such as extraction, drying and purification, characterization of bioactive compounds and phytochemical analysis, in vitro and in vivo screening of novel food products and ingredients and preclinical studies, product development and processing of nutraceuticals, an area of phase I and phase II human clinical trials / human translational research and finally an marketing and regulatory area evaluating the claim feasibility of a functional food or component based on scientific evidence throught industry tracking and/or consumer surveys.

Previous FP experience

The national expansion undergone by the Centre has led to its internationalization. Currently, CIDAF is participating in xx FP7 projects (), and is waiting evaluation of other FT7, LIFE+, EUROSTARS and SUDOE Projects.

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



DIETA MEDITERRANEA, ACEITES Y VINAGRES, S.A.

SME

*PROFILE from SPAIN
(14ES0154)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

DIETA MEDITERRANEA, ACEITES Y VINAGRES, S.A. is a dynamic company dedicated to manufacturing and packaging of Extra Virgin Olive Oils, vinegars and ecological products internationally recognized.

The Company works with the desire to keep traditional processes but incorporating the latest techniques and equipment for the production of virgin olive oils of high quality. Efforts to produce and improve the development of products and solve problems affecting the sector, have led this company to raise and manage several research projects by obtaining quite beneficial results.

The company has been involved in different R&D project with aim of developing functional and healthy products combining natural ingredients, such as olive oil and tomato.

Additionally the company not only has innovated in procedures but also in packaging process. Currently the company works with two main packaging system: one for traditional formats made of plastic and glass and presented in different sizes, and other for individual use, having pioneered the commercialization of this type of format with high success today.

MEDITERRANEAN DIET, Oils and Vinegars, SA has a skilled R&D department with a young workforce and trained, fully involved in the company's philosophy, creative and concerned with improving day by day the quality of the products they produce.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

The experience of the company has lead them to focus their activity on the development of new products with functional properties.

Their activity has led them to develop organic oils and develop other products like vinegar, table wines and more recently within its Research Department, olive leaf tea and a new product which combines main properties from olive oil and tomato.

MEDITERRANEAN DIET has wide knowledge in research about functional products which could help in improving different diseases. The studies and clinical trials have verified the new functional products developped by the company, have beneficial properties in health. The company is interested in keeping on this innovative activity through the develop of new functional and healthy products. MEDITERRANEAN DIET has conducted several R&D projects at national level therefore they are interested in developping new products at European and International levels in order to cooperate with international entities and keep on improving their competitiveness in bioproducts.

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing

 **FOOD PROCESSING INITIATIVE E.V.**

SME

*PROFILE from Germany
(14DE0155)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food-Processing Initiative (FPI) e.V. (membership association) is the established networking organisation for food industry (i.e. producers, technology, ingredients, packaging, IT solutions) and research. FPI facilitates innovation in product, technology and knowledge, and opens up new markets. FPI is engaged in national and international innovation projects, delegations and matching events.

Expertise offered (related to the topic)

Creating Contacts – Pooling Potential – Opening Opportunities

FPI, founded in 2000, is an acknowledged network in the food sector. FPI supports food companies, in particular small and medium-sized enterprises (SME) on innovation, strategic alliances, market potentials and expansion. FPI fosters communication, provides information, establishes contacts across the food chains, initiates and supports all forms of co-operation and innovation projects, resource efficient processes in food production and dissemination and exploitation strategies, both national and international.

Previous FP experience

FPI e.V. has participated in several EU projects fostering innovation in the German food sector and promoting transfer of research results to the food industry. Project examples are the INTERREG projects FoodSpot, FoodFuture and FP7 project AgriFoodResults. FoodSpod is a collaborative

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

platform for cross-border innovation and cooperation in the food sector of the Netherlands, Flanders and North-Rhine Westphalia. AgriFoodResults provides useful tools for dissemination managers of food research projects, including a virtual supermarket which provides food SMEs an intuitive access to the results of past EU R&D projects.

Role in the project

Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



MESUREX

SME

*PROFILE from Spain
(14ES0156)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Mesurex was founded in 1996 and its HQ is located at the Technological Park of Andalusia, in Malaga with offices in Barcelona and Madrid. Measurex is an Automation and Control Engineering company.

We provide solutions on:

- HW/SW Prototyping,
- Sensor networks,
- Wireless systems,
- Process monitoring and control,
- Embedded Systems,
- SW for industrial and infrastructure applications,
- Thermal vision applications and systems
- Non Contact Measurement applications and systems

Our application engineers provide technical advice from the outset and offer support in the implementation phase, based on their experience with a large customer base and their training from leading worldwide manufacturers of hardware and software for systems instrumentation and control.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

MESUREX also advise on the choice of optimal technology and HW/SW needs and specifications to use in your application, our engineering and development department offers complete solutions. We can adapt and integrate sensors, reading devices or data acquisition equipment, software and all kinds of control systems.

The technical team and R&D department are composed of engineers and qualified people from different technical areas such as mechanical design, electronic design, software programming, among others.

We have been developing many devices and systems for large companies (HP, Airbus Military, EADS CASA, etc.).

Expertise offered (related to the topic)

Our know how is based on the latest measurement technologies available on non contact and fiber optic sensors: infrared thermometers,

LWIR, MWIR thermography, movement and distance measurement by laser, chromatic, inductive, RF, and capacitive sensors, non contact humidity online measurement, etc.

Previous FP experience

- NOSEY project; development and design of an electronic nose for the detection of wines corks in not well state (was coordinator of this EU funded project, worked along with other companies and universities).
- WATER MONITOR project; will provide a monitoring system of water sources, both quantitative and qualitative, on the basis of a new analysis technology set up (was SME of this EU funded project, worked along with other companies and universities).

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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■ ■ ■ 645

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0157)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
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Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



QUEIZUAR

SME

*PROFILE from Spain
(14ES0158)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Queizuar is an SME, created in 1997 that produces traditional PDO cheese. It is located in Galicia the leading milk producer region in Spain, with approximately 55% of the Spanish dairy farms.

Nowadays, Queizuar-Bama processes 50.000 litres per day, producing 3 types of cheese: Arzua Ulloa Protected Denomination of Origin, Tetilla Protected Denomination of Origin and Fresh cheese.

Queizuar has been working in 5 R&D projects during the last 7 years:

1-"Estudio das alteracións superficiais aparecidas na produción de queixos das denominacións de orixe Tetila e Arzúa-Ulloa" (Study of surface alterations appeared in the production of PDO cheeses: Tetilla and Arzúa-Ulloa) – PGIDIT05TAL011E (Xunta de Galicia – Spain) – (2005-2008)

2-"Valorización dos soros de queixería mediante a produción de ingredientes alimenticios funcionais e produción de bioetanol" (Cheese whey valorization through the production of functional food ingredients and bioethanol) – PGIDIT07TAL006E (Xunta de Galicia – Spain) – (2006-2008)

3-"Obtención dun preparado lácteo funcional a partir dos soros de queixería" (Obtaining a Functional Dairy prepared from cheese whey) – PGIDIT09TAL002E (Xunta de Galicia – Spain) – (2008-2010)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

4- "Valorización dos soros de queixería mediante a produción de bioetanol" (Cheese Whey valorization through bioethanol production) – PGIDIT09REM001E (Xunta de Galicia – Spain) – (2008-2010)

5- "Valorización do soro de leite mediante a produción de bioetanol e dun novo produto con propiedades anti-hipertensivas" (Cheese whey valorization by producing bioethanol and a new product with antihypertensive properties) – FEADER 12/11 (Xunta de Galicia – Spain) – (2012-2013)

Expertise offered (related to the topic)

Queizuar is aware with the environment and sustainability, and its last four R&D projects are focused on reducing its fossil fuel consumption and reducing the cheese whey impact on the environment. Continuing with the effort of the company to contribute to low resources consumption Queizuar would work in future projects related with environment and sustainability.

Previous FP experience

Queizuar presented since 2011 three european projects as coordinators (2 Eurostars and 1 KBBE) and one KBBE project as partners. The last one has been elected to be financed by the EU, and it began the last 1st of November.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0159)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



*AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE
- FOOD CHEMISTRY AND TECHNOLOGY*

R&D Institution

*PROFILE from Denmark
(14DK0160)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor: Has since 1993 worked in food research with two main focus areas: 1) food structure and functional properties, i.e. gelling, foaming, emulsification of especially eggs, egg products and dairy products related to primary production and processing, and 2) organic food quality with focus on value adding of differentiated foods. Holds experience in project management from several research projects, teaching in Food Science at KU-Life and in Molecular Nutrition and Food Technology at AU. Is responsible of the master course 'Structure and Functionality', and supervises ph.d.- and master students.

Expertise offered (related to the topic)

Research activities within the fields mentioned above.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

655

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



*AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE
- FOOD, METABOLOMICS AND SENSORY SCIENCE*

R&D Institution

*PROFILE from Denmark
(14DK0161)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The group is working with metabolomics applications in food and nutrition research. Activities include metabolite profiling of food items including vegetables, fruits, dairy products and fresh meat and meat products with emphasis on the health potential, storage-induced changes and quality of the food items. The metabolomics activities also include analyses on biofluids (blood, urine, saliva) and tissue samples. Biofluid-based and tissue-based metabolomics is applied in research projects to elucidate the impact of diet on metabolism and health markers in relation to human diet and human health. As examples, impact of intake of intact and modified (hydrolysis) dietary protein and different dietary protein sources has been elucidated by applying metabolomics on biofluid and tissue samples collected from animals fed the different dietary proteins. Biofluid-based and tissue-based metabolomics is also applied to elucidate metabolism in husbandry animals in relation to production systems and other pre- and post-slaughter factors. As examples, metabolomics has been applied on blood samples collected from pigs to elucidate the impact of exposure to pre-slaughter stress and introduction of a resting period prior to slaughter and metabolomics has been applied on pork from different crossbreeds in order to elucidate relation between meat metabolites, meat quality and sensory perception.

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The analytical platform contains LC-MS- and NMR-based techniques including magic angle spinning probes for measurements on semi-solid materials such as foods and low-field NMR relaxometry for determination of water mobility, water-protein interactions and water-binding properties of foods.

Expertise offered (related to the topic)

Within metabolomics , biomarker identification, muscle physiology, meat science.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping
(Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

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 Business Support on Your Doorstep 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



*AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE
- FOOD, METABOLOMICS AND SENSORY SCIENCE*

R&D Institution

*PROFILE from Denmark
(14DK0162)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research fields: Expertise with plant food quality and post-harvest physiology, biology and technology. The focus is on the impact of product, cultivar and growing history and the effect of applied technologies (e.g. cold storage, controlled and modified atmosphere storage, packaging and processing) on fruit and vegetable quality. The work includes isolation and quantification of primary and secondary metabolites like carbohydrates, organic acids, volatile and non-volatile compounds, polyacetylenes, carotenoids and chlorophylls and relations to sensory quality and non-destructive measurements.

Expertise offered (related to the topic)

Plant food quality; Raw material quality and processing and packaging technology to increase eco-innovative solutions in sustainable food processing. Understanding consumers perception of freshness and monitoring early changes in product quality and shelf-life using chemical, sensorial and non-destructive, on-line monitoring. Developing innovative tools (low boiling volatiles) to understand and minimize quality changes in the food chain. Developing and testing new technologies in cooperation with the industry. Having more than 20 years of work experiences with the industry at different points in the food chain (from gene to consumers).

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: DK150121-09

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



ANDALOUSIAN CENTER FOR WINE RESEARCH

R&D Institution

*PROFILE from Spain
(14ES0163)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Andalusian Center for Wine Research is a mixed research institute. It is linked to the University of Cadiz and the Andalusian Regional Government. The research areas include:

New technologies in viticulture.

Viability and quality of land.

Wine microbiology.

Biotechnology in the fermenting process.

Technological processes.

Improvement of vinicultural products.

Acetic acid fermentation.

Study of products distilled from wine.

Study of quality indicators used in processes.

Description and quality of vinicultural products.

Development of new viticultural products.

Recovery of byproducts and waste products.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The historical, cultural, economic and legal study of viticultural products.

The chemical and integrated control of phytopathogenic fungi.

The Center has a long experience working with wine and food companies. It has been also involved in research results dissemination and in public presentations about wine and related functional foods.

Expertise offered (related to the topic)

Dissemination of research results by public presentations in meetings and seminars. Public presentation about properties for wine and related functional foods. Public wine and functional food tasting sessions to promote wine and related functional foods consumption

Previous FP experience

Role in the project

Research; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing

 *ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES*

R&D Institution

*PROFILE from Germany
(14DE0164)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Insitute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and develepmnt projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The department of Beverage Technology holds competences in research projects focussed on the development of functional beverages and fermentation technologies. Beverages can be produces from lab scale up to large scale of 500 L per batch. All important downstream technologies are available in large scale.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The intstitute participates in a number of

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

ongoing nationally-funded projects. The research departments have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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City: Mülheim/Ruhr

Country: Germany

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



RESEARCH GROUP: "DERIVADOS DE LA UVA" (AGR167)

R&D Institution

*PROFILE from Spain
(14ES0165)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

MAIN LINE: Fermented beverages and condiments.

Bioactive compounds.

Bioactivity evaluation

Chemical characterization of fermented products: antioxidants, aroma, melatonin

SPECIFIC OBJECTIVES: Development of new functional beverages.

Chemical characterization of fermented products for food authenticity purposes

Impact of food processing on the chemical composition of fermented products

KNOWLEDGE TRANSFER OBJECTIVES: Collaboration with agro-food industries, in particular primary fruit producers, beverages industries, yeasts suppliers and food supplements.

Collaboration for valorization of products

Provide an added value for surplus production particularly regarding their bioactive compounds content

Reduce food waste

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

PROJECT: "Winegar. Wood solutions to excessive acetification lengths in traditional vinegar production" VI FP. Cooperative research project. Partners RTD Universidad Rovira I Virgili, Universidad de Sevilla. Università degli Studi di Modena I Reggio Emilia, Université de Gèneve, SME: Acetaia Cavalli, Boteria Torner, VINagrerie La Guinelle,. Viticultors Mas d'en Gils.

Project: Selective fermentation for the production of a new drink from surplus strawberry National Research Programme. AGL2010-22152-C03-01. Universidad de Sevilla, Universidad Rovira i Virgili, Universidad de Córdoba. 2010-2013

Expertise offered (related to the topic)

- Qualified scientific personnel with an extensive expertise in the area of fermented products mainly wine, vinegar and condiments.
- Qualified scientific personnel with an extensive expertise in the bioactivity evaluation specifically antioxidant properties
- Multidisciplinary and integrative approach that combines analytical, sensorial tools as well as biotechnology of fermentation and bioactivity test.
- Good dissemination of results in high impact journals, conferences and symposia.
- Commitment of the group to the spreading of knowledge in the field through postgraduate courses, PhD preparation programmes, etc.
- High expertise in training both researchers and assistant personnel and capacity to provide mentoring/tutoring.
- Good capacity of transference of technology with the industry.

Previous FP experience

PROJECT: "Winegar. Wood solutions to excessive acetification lengths in traditional vinegar production" VI FP. Cooperative research project. Partners RTD Universidad Rovira I Virgili, Universidad de Sevilla. Università degli Studi di Modena I Reggio Emilia, Université de Gèneve, SME: Acetaia Cavalli, Boteria Torner, VINagrerie La Guinelle,. Viticultors Mas d'en Gils.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



TECHNOLOGIES FOR INDUSTRIAL BIOPRODUCTS
DEVELOPMENT - UNIVERSITY OF SANTIAGO DE
COMPOSTELA

R&D Institution

*PROFILE from Spain
(14ES0166)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

TIBD from University of Santiago de Compostela was created by joining two groups, the first one with a wide experience regarding the research of the extraction of flavonoids and other polyphenols from plants and bioactive components from seaweeds, the second one with a wide experience in drying processes, food rheology and research on gluten-free dough. The main research topics are the development of ultrasound-assisted processes for seaweed extraction of bioactive components, preparation characterisation of gluten-free dough, convective drying and the characterization of starch-based functional foods including extracts from plants and seaweeds.

Previous projects that define our expertise are the following :

"Technological flair for the industrial processing of gluten-free flour doughs. Additives and Thermomechanical and Rheological characterization." CTQ 2010-15309/PPQ. Ramón Felipe Moreira Martinez. National Grant. 01/2011-12/2013.

"Obtaining of algae liquid extracts from Galician coast resources as an added value product to be used in agriculture and cosmetics". PGIDIT10MMA007CT. Jorge Sineiro Torres. Regional Grant. 08/2010-09/2013.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

"Evolution of the physical-chemical properties of systems with high content of starch obtained in osmotic-convective drying processes and rheological characterization of the mixture with water." National Grant. Ramón Felipe Moreira Martinez. CTQ 2007-62009/PPQ. 08/2007-08/2010

"Obtaining of taylor-made proanthocyanidinic fractions for grape marc and other subproducts." María José Núñez García. National Grant. AGL-2006-1210-C03-03. 10/2006-09/2009.

Expertise offered (related to the topic)

Our experience is oriented to obtaining functional starch-derived foods by extraction of bioactive compounds from seaweeds to be applied gluten-free fortified dough, which can be studied at all stages of processing, from flour preparation to cooking.

Our facilities include pilot-plant ultrasound processing unit DrHielsher, two convective pilot-plant dryers, rheometer for dynamic rheology Anton Paar, rotary and capillar viscometers, micronizer Retsch, surface tension measurement Lauda, Mixolab unit for preparing and charactrisation of dough, climatic chamber Angelonni 250, two gel filtration preparative columns (7x100 cm), UV detector for chromatography columns, chromatography A/D converter and software eDAQ, fractions collector Bio-Rad, Freeze Dryer FTS Kinetics EZDry, ultrafreezer New Brunswick, rotary incubator New Brunswick Innova40, HPLC Jasco, spectrophotometer Jasco UV530.

Previous FP experience

Jorge Sineiro participated in OLNOCO Project from IV Framework Programme, which was developed by Universidad de Santiago de Compostela (coordinator, Spain), Universidad Catolica de Valparaiso, Intituto de Biotecnología (UNAM , Mexico), Universidade do Porto (Portugal) and Universidad de Vigo (Spain).

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

■ ■ ■ 671

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



TRACE ELEMENT, SPECTROSCOPY AND SPECIATION GROUP. UNIVERSITY OF SANTIAGO DE COMPOSTELA.

R&D Institution

*PROFILE from Spain
(14ES0167)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Title: Optimization of the fat acids profile in milk through the cow feeding

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2006-2007, Participants : Feiraco, USC

Title: Optimization of minerals contents in cow milk through cow feed and zootechnical management of cow farms

Financial support: Consellería de Innovación e Industria, Xunta de Galicia

Date: 2007-2008, Participants: Feiraco Lácteos , USC

Title: Development of molecular imprinted polymers (MIP) for their application in the food field ,MIPFOOD

Financial support: Ministerio de Ciencia e Innovación (IMPACTO)

Date: 2010-12, Participants: 13 Universities and Companies

Title: Improvement in the detection and determination of drugs in clinical samples for a rapid and reliable answer in the toxicological-forensic laboratories.

Financial support: de Educación e Ordenación Universitaria, Xunta de Galicia

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**European R&D projects -
Agrofood Partnership Profiles
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Sector Group Agrofood

Date: 2011-2013, Participants: USC

Title: Use of the multifunctional nanoparticles for the simplification of the analytical methods.

Financial support: Consellería de Educación e Ordenación Universitaria, Xunta de Galicia

Date: 2011-2013, Participants: USC

Title: Multielemental, chemical and functional Speciation of trace elements in dissolve organic matter in seawater

Financial support: Ministerio de Ciencia e Innovación

Date: 2009-2012, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Title: Tracking Drug Trafficking (TDT)

Financial support: European Commission, Directorate-General Justice

Date: 2012-2015, Participants: Università Cattolica del Sacro Cuore, Roma, Italia,

Universidad de Santiago de Compostela, Spain

Title: Innovations in functional-chemical speciation in environmental nanotechnology (nanometrology). Characterization of artificial nanoparticles and natural organic

Financial support: Ministerio de Economía y Competitividad

Date: 2013-2015, Participants: Universidad de Zaragoza, Universidad de Santiago de Compostela

Expertise offered (related to the topic)

Trace Element Speciation Studies. Development of functional foods. Development of analytical methodology for the study of bioavailability of trace elements and organic compounds in foods using in vitro digestion methods. Development of analytical methodology for the study of trace elements and endocrine disruptors in foods. Studies of transfer of chemical compounds from the packing to the food.

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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■ ■ ■ 675

 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014 : Innovative solutions for sustainable novel food processing



RESEARCH GROUP: "FÍSICA DEL PLASMA: DIAGNOSIS, MODELO Y APLICACIONES" (FQM-136) UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES0340)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014 : Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group has a long history of the study of the Plasma in its different aspects, from theoretical point of view as experimental. In the last years, we are working in the industrial application of this plasma, especially in the destruction of industrial waste. Result of this work is the development of different spanish patent to destruction of Volate Organics Compound and the design of a Chamber specially useful for waste destruction techniques. Also, we have stated to work in the application of plasma for the agriculture and livestock industries by development of technologies for remediation of pollutants delivered into the environment . Plasma treatment of samples from different scenarios (farms, industries...) enables us to know the capability of non thermal plasmas to destroy gases derived from these activities (greenhouse gases, ammoniac...).

This research was developed in the frame and support of the following National Projects:

1. FIS2009-11191. "Reactor de plasma de gran volumen basado en descargas de onda de superficie producidas en estructura coaxial". 72.600,00 € Antonio Gamero Rojas, 1-C
2. FIS2005-02840. "Descargas de microondas para aplicaciones en lámparas de iluminación". 104.720,00 €, Antonio Gamero Rojas, 2-C

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3. CTQ2005-04974. "Desarrollo y optimización de métodos basados en plasmas de microondas para la destrucción y eliminación de compuestos bext y derivados". 77.350,00 €, Antonio Rodero Serrano, 1-C

4. PPQ2001-2537. "Destrucción y detección de residuos peligrosos mediante procesado con plasmas de alta frecuencia (radiofrecuencia y microondas)", 150.403,28 €, M. Carmen Quintero Ortega, 1-C

Expertise offered (related to the topic)

Our research group has extensive experience in different topics related with the plasma with helping to a successful development of Project inside the frame of this Programme:

- Spectroscopic diagnosis techniques
- Electromagnetic diagnosis techniques
- Collisional Radiative Models of Plasma.
- Kinetic Models of Plasma
- Gas chromatography
- Mass Chromatography
- Laser Induced Breakdown Spetroscopy
- Waste destruction by plasma
- Lighting by Plasma.

Previous FP experience

We have been involved in different national and international Project related to the Plasma studies and to the use of this device to industrial application.

Our group belongs to the research teams of the Agrifood Campus of International Excellence CEIA3, leds by the University of Cordoba.

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

■ ■ ■ 677

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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■ ■ ■ 678

 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014 : Innovative solutions for sustainable novel food processing



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0355)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014 : Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has a clear main, to make companies, especially SMEs, more competitive through innovation and R&D activities.

We offer improvements in technology applied to current products and markets by evaluating changes and trends in them as well as targeting potential new markets.

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We are focus in demonstration activities. In the "Center for Innovative fresh cut and ready-to-eat Food Products", the newest technologies can be checked by our companies associated and the whole agrifood sector.

PROPOSED ACTIVITIES

IDEALFOOD could focus on:

- Demonstration activities in our pilots plants
- Providing SMEs and other stakeholders to the proposal
- Validating the benefits for the end-users/buyers of the first application in real life operating conditions
- Validating technical and economic performance at system level
- Developing of activities to prepare market intakes

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



AINIA

Technological Centre

*PROFILE from Spain
(14ES0294)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

ainia is a technology centre that works to promote the competitiveness of companies through innovation. With over 700 member companies and 1,200 clients, is one of Europe's technology centres with a largest business social base. Its mission is to give value to companies by leading innovation in a responsible and committed way. It work for the following sectors: Food; Environment and Energy; Packaging; Chemical products, cleaning and disinfection; Cosmetics and body care; Pharmaceuticals and biomedicine.

Ainia priority lines are: Food & Health; Food quality and safety; Design and industrial Production; Sustainability; and Consumer.

ainia technology centre offers solutions covering the entire typology of innovation needs of small, medium and large companies:

R&D&I:

- Product formulations: development, improvement, etc.
- Ingredients and raw materials: identification, validation, etc.
- Food, health: functionality of active ingredients, cell lines, bioavailability, nutritional improvement, etc.
- Security, authenticity and control: products, raw materials, processes.

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- Hygiene and hygienic design: equipment, facilities, processes.
- Packaging: design, materials, packaging systems, package-product interaction.
- Industrial process automation
- ICT applications to industrial and management processes
- Pre-normative research
- Sustainability: use of by-products and waste, biogas, carbon footprint, water footprint, etc.

Consulting and Management support

Analysis, laboratories, control

Industrial processes: BIOPROCESS; SCF TOLL MANUFACTURING; SUPPORT FOR INDUSTRIAL PROCESSES; Industrial-scaled.,

With 13,000 m2 of facilities, ainia has 10 pilot plants, 8 laboratories, 10 classrooms and training rooms, Consumolab (centre for analysis of consumer behavior through sensory analysis) and Altex (high-tech plant to provide a wide range of services based on supercritical CO2 extraction).

With a highly qualified team (over 70% of the staff are university graduates and PhD), multidisciplinary, confidentiality and flexibility to develop customized solutions tailored to the needs of each client are different elements of ainia as part of its corporate culture.

Expertise offered (related to the topic)

ainia can contribute to this topic with their expertise in the following areas: 1) Supercritical Fluid Technology; 2) Chemical Engineering and 3) Physical and Chemical Analytical Technologies with applications to Food & Health , Food Quality and Safety and Sustainability

Previous FP experience

ainia is the coordinator of the GREENFOODEC project that is in relation with this topic

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: SEIMED

Organisation name: Ainia

Address: C/Benjamín Franklin, 5-11, Parque Tecnológico

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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E-mail: Jcarreras@ainia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing

 **HÖFELMEYER WAAGEN GMBH**

SME

*PROFILE from Germany
(14DE0313)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Höfelmeyer Waagen GmbH is a technology company (medium sized enterprise) offering professional solutions to the weighing. Main branches: food, chemical- and pharmaceutical industries, logistics. It employs around 80 people in Germany.

Founded in 1986, Höfelmeyer Waagen GmbH is now regional market leader in a number of areas thanks to its responsibility for driving innovation and commitment to customer service

For each application there are different demands on the individual machine, e. g. in the pharmaceutical industry the precision weighing of smallest products is of major importance, while the logistics branch weighers for heavier loads are needed.

Based on our experience we have selected a range of industrial scales for each branch which will give an overview and help to find the scale fit for individual application.

Increasingly, these solutions are fully integrated into the customer's IT environment

The system components developed for our customers in industry all have one thing in common: weight. Our products cover specialist industrial weighing and labelling solutions, software, detection and separation of foreign bodies, scanners, printers and labellers.

Expertise offered (related to the topic)

ISO DIN EN 9001:2008 TQM

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



CENTIV GMBH

SME

*PROFILE from Germany
(14DE0316)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance
- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program).

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

Previous FP experience

BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

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HighTech Europe: the first european network in food processing, www.hightecheurope.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

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Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing

 **FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG**

R&D Institution

*PROFILE from Germany
(14DE0320)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Fraunhofer-Gesellschaft is a leading organization of applied research and development in Germany. It gathers 60 research institutes with some 20.000 employees. Fraunhofer-Gesellschaft is working on research with industry, the service sector and the government.

Fraunhofer-Gesellschaft is actively involved in industrial consortia seeking technical solutions to improve the competitiveness of European industry, also with strong contact to another markets (e.g. China). The Institute of Molecular biology and applied Ecology (IME) conducts research in the field of applied life sciences from a molecular level to entire ecosystems. One of the major objectives in the business field "Food and Feed Safety" is to ensure high quality standards and safety levels for food including food quality assessments. Therefore research is dedicated towards the development of innovative detection procedures for the analysis of food and feed based on sophisticated reference analysis. These chemical and microbiological reference analyses are assured by an accreditation according to DIN EN ISO/IEC 17025:2005 and a certificate according to Good Laboratory Practice (GLP).

Expertise offered (related to the topic)

The department of Environmental and Food Analysis disposes of excellent technical equipment and highly qualified personal in biological and instrumental analytics. IME, together with its partners in

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

the Fraunhofer Food Chain Management Alliance (FCM), is able to provide comprehensive solutions in this area for all stake-holders in the food chain and finally to the consumer. The department is run by a large staff-pool with decades of experience of all instrumental analytical skills in the food and environmental sectors.

We possess a wide range of instrumentation from UPLC coupled to HR-MS/MS to GC-MS/MS with multiple possibilities for automated sample preparation and a 750 MHz NMR for structure elucidation. As a laboratory run by food chemists, we have a strong background in the analysis of complex matrices and the development and application of multi-methods. With the miniaturization of analytical systems, moreover we seek to imply such measurements into the production process. This can allow to monitor the product quality during novel processing procedures even in-line.

Role in the project

Research; Tech. Development

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



CHAM FOODS

SME

*PROFILE from Israel
(14IL0328)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

Working together with sustainable growers and farms for the supply of fruits and vegetables and herbs.

Receipt and handling of naturals in large scale.

Supportive in-house laboratory testings through all parts of processing.

Processing including concentration, cold and hot break, aseptic filling.

Drying processes such as spray drying and freeze drying in pilot and commercial scale.

Natural raw materials dried as powder or sliced or concentrated.

Role in the project

Research; Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: MATIMOP-ISERD

Organisation name: Israel-EU R&D Directorate

Address: Industry House, 29 Hamered St.

City: Tel Aviv

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-17-2014: Innovative solutions for sustainable novel food processing



COVAP

Large company

*PROFILE from SPAIN
(14ES0369)*

TOPIC OF INTEREST

TOPIC

SFS-17-2014: Innovative solutions for sustainable novel food processing

ORGANIZATION EXPERTISE

ENTITY PROFILE

COVAP is the largest agroindustry cooperative in Andalusia and is one of the most important in Spain, founded in 1959. The business scope is mainly focused on dairy products, animal feed, and meat products: 1) milk, milk shakes, enriched milks, 2) sheep, cow and goat cheese, 3) Iberian Ham and sausages, and 4) Iberian pig, beef and lamb meats. COVAP has an integrated production system based on an eco-sustainable model.

Its pastureland use rotational farming methods, meaning that the land is used to grow cereals for a period, and then used for livestock grazing. This kind of relationship between crop and animal farming is only possible due to a balance in the use of natural resources.

COVAP integrated production chain involves livestock, feeding, industrialization, commercialization and consumer (markets). The main advantage using this model is to have the control over the different steps till reach the end product and implement solutions from farm to fork. Each action at different levels will affect the rest in the chain, following up the quality and traceability of each end product. Moreover, COVAP has set up its own technical support service to get closer to members and to provide them with everything they need to improve their production conditions. A skilled team of professionals provides a highly personalised service to members by carrying out a lot of field work. There are now four main support areas: 1) Rural Engineering and the Environment, 2) Hygiene and Health, 3) Reproduction, and 4) Comprehensive Advisory Services to help members to take advantage with the support of Public Administration.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

COVAP the facilities to develop different types of food products for human consumption and also animal feed products. In this sense, COVAP has a large database record from a huge number of both ruminant and Iberian pork farms. As well, COVAP has a powerful processing infrastructure, to be used in developing new food products, application of technology and pilot tests. Besides, COVAP has already prototypes, own production factories and field experience in both food security and product development.

Previous FP experience

COVAP has participated in the following International Research Projects: BRIDGE Project (6th FP) where the application of RFID in the processing of Spanish Iberian ham for traceability and storage management. Currently, COVAP is involved in a Research Project from 7th FP Called BIOFOS which attempt to develop a high-added value multi-analyte biosensor for quality control in food industry. Under the figure of EUREKA, COVAP is running the Project INFORMED, which addresses online monitoring & control of production in the meat processing industry. Moreover, COVAP has huge experience in developing research projects financed by its own resources and with National funding, in areas such as Food quality, Food safety, Animal Health Status and Production Improvement, or New Products/Processes Development.

Role in the project

Tech. Development; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0168)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

CTAEX's expertise lies in the development of agricultural trials related to plant variety characterization, seeds and plant material multiplication, and crop management practices, specifically addressing sustainable crop production and mechanisms to increase productivity, stability, and quality of fruits, vegetables, cereals and legumes.

It also lies among the Agricultural Dpt. expertise the study of weed control and pest management through innovative procedures like the employment of aromatic and medicinal plant's bioactive compounds as well as those chemically interesting substances coming from the exploitation of by-products and residues of the agro-food industry. In this sense, up to 60 different vegetable species of Aromatic and Medicinal plants have already been successfully grown, extracted, characterized, and chemically and microbiologically evaluated in the search of bioactive compounds with different applications.

The soil quality and management is approached via the study of alternative cultivars, and the development of novel fertilization techniques including innovative eco-friendly amendments.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

Role in the project

Research; Tech. Development; Dissemination; Demonstration;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



FAICO. FUNDACION ANDALUZA DE IMAGEN COLOR Y OPTICA

R&D Institution

*PROFILE from SPAIN
(14ES0169)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

FAICO is a private non-profit organization located in Seville and Cádiz (Andalusia, Spain), specialist in technological solutions through the application of industrial optics, especially in the areas of Cultural Heritage Conservation and Industrial Process Automation.

Machine vision applications:

- Automation of industrial manufacture, processing and packaging.
- Safety systems in industrial environments
- Quality control/failure detection
- Visual stock control and management systems
- Control of vehicles and industrial robots

Inspection of surfaces

Relevant R&D Projects:

A2 TRANSFER: PROMOTION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS IN THE AGROFOOD INDUSTRY IN THE REGIONS OF ANDALUSIA AND ALENTEJO

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Programme: POCTEP; Duration: 24 M; Budget: 700.000 € (525.000 FEDER)

GEEWHEZ: MANAGEMENT AND LEISURE MIDDLEWARE FOR THEME PARKS AND ZOO

Programme: FP7; Duration: 24 M; Budget: 1,635,080 €; Role: Partner

AUTOMATED SYSTEM FOR CLASSIFICATION OF ALEVINS IN FISH FARMS

Programme: Agentes del Conocimiento; Duration: 12 M; Budget: 213,088 €

AUTOMATED PROCESSING PLANT OF CRAYFISHES

Programme: (Private Funding)

RIPE&SWEET: Developing a hyperspectral system to check out the quality of fruits and vegetables

Expertise offered (related to the topic)

FAICO is officially qualified as Technology and Innovation Support Centre by the Spanish Ministry of Science and Innovation, being today a Technology Reference Centre in the industry. FAICO specializes in the fields of Machine Vision, 3D Design/Digitizing, Graphic Arts and Optics Engineering. Our mission is to provide the customers with the best technological solutions tailored to their needs. We apply our resources to develop, implement and optimize industrial processes and products in relevant fields of expertise. The main RTD activities and technological Solutions are as follows:

Machine Vision Applications

3D Design/Digitizing

Printing Technology

Previous FP experience

Geewhez Project (RTD Performer): Development of a surveillance system to control the behavior of visitors during their stay at the Park, the behavior of animals or the detection of escapes especially during the night in Animal Theme Parks. <http://www.geewhez.eu/>
A2Transfer Project: New technology transfer in agro-food industry in Andalusia-Alentejo <http://www.a2transfer.es/>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



RESEARCH GROUP: "MICROBIOLOGÍA DE LOS ALIMENTOS" – MICAL. UNIVERSITY OF CORDOBA

R&D Institution

PROFILE from SPAIN
(14ES0276)

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

MICAL is a Researching Group of the University of Cordoba. Field of knowledge: Food Microbiology & Food Hygiene. Control and detection of pathogen microorganisms, mainly using alternative methods, as VIDAS system or Impedance methods, as well as the traditional procedures. Implementation of HACCP system. Also, we have experience with traditional meat and dairy products. This Researching Group is financed by the Andalusian Government and the University of Cordoba, the main Public University in Spain for Researchin purposes, according 2009 ranking. We have recognised an Agrofood Excellence International Campus (ceiA3) by the Spanish Government. More information: <http://www.uco.es/mical> and <http://www.uco.es/ceiA3>.

Expertise offered (related to the topic)

a) Previous experinece in participating in researching projects, as partners as well as responsible of area partners; b) use of alternative methods in food microbiology as VIDAS system, Bactometer (impedance monitoring method, etc.) as well as traditionals; c) Use of important equipments and facilities resources in our University through a Centralized Researching Assistance Service; d) The existence of an Agrofood Excellence International Campus in our University

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Dry-Sausages Ripening Improvement Project

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: María Fernández Santa-Cruz

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

 *UNIVERSITY OF TURIN, FOOD-EES RESEARCH GROUP,
R&D Institution
PROFILE from Italy
(14IT0170)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food_EES represents an interdisciplinary group of research, made of sociologists, geographers, agronomists, rural and environmental economists of the University of Turin, interested in food, as a unique lens through which one can address key social science questions on resource shortfalls, environmental pressures and social development. We think that doing research on food provides important opportunities to solve questions about the prospects for a more secure, just and sustainable future, understanding the shifting boundaries between civil society, the market and the State.

Relevant R&D projects:

- 2012-2015 AFNIA, funded by Strategic Research Grant – Compagnia S.Paolo Foundation. Alternative Food Networks: An Interdisciplinary Assessment Theoretical from four disciplinary standpoints: economic, social, environmental and territorial.
- 2012-2013 ECOAGRO, funded by Piedmont Region, Innovation Pole. New approach for the environmental management and certification for agri-food industry.

Expertise offered (related to the topic)

Methods and tools (LCA methodology , social life cycle assessment, sustainability indicators multi-criteria analysis) for the analysis of smallholdings system with an interdisciplinary approach that

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

considers the aspects related to the agro-food systems, the environmental and social aspect of sustainability and encompasses aspects such as resilience, panarchy among markets, governance.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

Telephone: 0039 011 5669239

Fax: 0039 011 5669238

E-mail: d.vismara@pie.camcom.it

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0171)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector, which represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results. We have worked hard to achieve a more sustainable agriculture, combining the modernization of farms with environmentally friendly practices. As an example, we advised farmers regarding chemical fertilizers and we managed to reduce its use in 30% and to improve the utilization of solid and liquid fertilizers produced directly on the farms.

We are working with over 800 clients with a very heterogeneous profile, but mostly, these are small family businesses and they are working, advised by Arza, to improve their farms and to improve their economic position. Most of them was developed their business as an individual person but we have contributed to create more than 300 agricultural or agribusiness companies looking for competitive enterprises. We are working for the women incorporation to the agricultural and agribusiness sectors because our area it is very traditional.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

 **ORTOFRUIT ITALIA (PRODUCERS' ORGANISATION P.O)**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0172)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ortofruit is a producers' association which was founded in 2003 by farmers and business people both inspired by a willingness to innovate and work jointly in the Piedmontese fruit and vegetable market. An entrepreneurial challenge for 500 farmers coordinated by 15 member cooperatives reaching a total volume of sale of 20.000 tons. Thanks to accurate production, deep knowledge of final markets, flexibility and organization, nowadays Ortofruit Italia supplies the most prestigious chains in the Italian and foreign large distributors' markets, both with Private Labels and with the label Ortofruit Italia.

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

Expertise and demonstration offered on:

- knowledge on fruit and vegetable markets, coordination of cooperatives of smallholders farms, implementation of tools for increase farmers' resilience to shock (biotic and abiotic), activities of farmers training

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



*SURGENIA, CENTRO TECNOLÓGICO ANDALUZ DE DISEÑO
Technological Centre*

*PROFILE from SPAIN
(14ES0372)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

SURGENIA is a non-for-profit foundation, listed as an Agent of Knowledge. It is the only Technological Centre of Design in Spain and it is supported by more than 20 trustees from varying strategic sectors.

The core activity of the centre is to create value through a deep and continuous analysis of trends and applicable technology, taking into consideration people's expectations, preferences and experiences.

This analysis is followed by a set of recommendations, aiming to improve competitiveness through R+D+i projects that use design as a tool for innovation and differentiation. To do so, our organization counts with multidisciplinary teams of researchers, designers, engineers, manufacturers and/or distributors.

The centre is specialized in the Agrofood Industry and has developed many projects supporting the sector and contributing to widen the knowledge about the consumer's behaviour related to agrofood products, improve the companies' competitiveness and foster the development of novel packaging and product categories. Among these projects it is worth to mention the Research and Publication of Gastrotrends: Packaging design and consumption trends report on agrofood products ISBN 978-84-

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614-6712-9. As well as our participation in the project AGRO+: Morocco/Spain Cooperation Platform for the strengthening of the innovation capabilities in the agrofood industry. Recently we have also fostered the project CONSERVAPESCA, focused on the research of new uses of marine species and development of new product categories for retail, or the project COLDFRUIT, in process of the development of a new preservation system that allow fruit to be on a frozen point suitable for fast unfrozen processes in vending machines without losing its attributes.

Expertise offered (related to the topic)

Surgenia has been working for years with Rural Development Groups in the south of Spain. The expertise of the team in this field can be applied to the research within the regions of Spain where small farms are representative and contribute to the development of their territory. We can provide market research experience in order to characterize the economy in rural areas and study its impact. Besides, we offer our experience in design for the dissemination of results in an attractive and user-friendly way. In order to maximize the project's impact, we can provide means to reach the target social groups and stakeholders in general, involving them all along the project's life; hence, they will be able to better acknowledge its benefits

Previous FP experience

We have been part of the following consortium for 7th Framework Programme, although we have not been granted until the moment: CLEAR (Consumer Labelling Expertise Advice Research), for the topic KBBE.2012.2.1-01: Role of health-related symbols and claims in consumer behaviour; also in the consortium EuroFoodNET - 2030: Back to the Future for Traditional Food in Europe. A Network for 2030, addressing the topic KBBE.2013.2.3-02 Network for the transfer of knowledge on traditional foods to SMEs.

Role in the project

Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

City: Sevilla

Country: Spain

Contact person: Leonor Camacho Cascajo

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Fax: 0034 955 05 85 87

E-mail: leonor.camacho@juntadeandalucia.es

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Partnership Profile

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security



FUNDACION CENTRO TECNOLÓGICO ANDALUZ DEL SECTOR CÁRNICO (TEICA)

Technological Centre

*PROFILE from Spain
(14ES0362)*

TOPIC OF INTEREST

TOPIC

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

ORGANIZATION EXPERTISE

ENTITY PROFILE

Teica has become innovation service meat companies, agribusiness and auxiliary, expanding its business base. Teica activity, which has been growing exponentially, it's focused on three priority areas: R&D, technical assistance and training, it is framed within the strategic lines are: direct service to companies, testing demanded by the industry, engineering support and process optimization, technology transfer, documentary support and training of all levels (basic, intermediate, technicians and managers). Teica has advised the meat sector companies in the deployment of processes and actions which represent and environmental improvement. This is the case of the implantation of the ISO 14001 Norm in companies, advising to enterprises in the accomplishment of environmental improvement actions within the program ECOINNOCAMARAS, and studying the viability of a biogas plant in the region using as substrates the meat industry residues. On the other hand, within A2TRANSFER (POPTec program, FEDER funds) and TRATECAR (REINDUS program) projects, Teica has made technology transfer activities based on improving production processes that make companies more environmentally sustainable. Teica throughout the project A2TRANSFER, cooperates with cattlemen and breeders of Spanish and Portuguese autochthonous breeds animals. During the development of that project has Teica technology transfer activities focused on HACCP. Likewise, TEICA is advising ACROL cooperative (farmers and breeders of organic lamb) in commissioning of new facilities in which they will transform their small

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**European R&D projects -
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Sector Group Agrofood

production for sale of meat. TEICA advises INDECCO, in organic goose breeding and development of products based on their meat. INDECCO is a small exploitation of geese raised on pasture. During the project development RETCETEC (POCTEFEX program, FEDER funds), TEICA has developed five prototypes of 5th range halal dishes. The same way, Teica technicians have participated as speakers at various seminars for environmental improvement. Teica has a laboratory which performs all types of analytical to the meat sector companies, including sewage, and a pilot plant for the development of new processes.

Expertise offered (related to the topic)

Teica collaborates with farmers associations for the enhancement of products from local breeds and livestock, DEHESA VALOR project. Teica has carried out the development of new products based on organic goose (GDR-FEADER), Iberian pork products obtained bred and fed in the chestnut (GDR-FEADER). In the project RETCETEC (POCTEFEX program) Teica developed five prototypes of 5th range halal and organic dishes, using organic lamb *lojeño*. Teica work carried out for the recovery of livestock biodiversity in Andalucía. Advises farmers in the deployment of HACCP systems and performs analytical control of these. Also have been carried out technology transfer activities for *mejorar* the efficiency and competitiveness of small farms.

Previous FP experience

TEICA has participated as principal beneficiary or as a partner in various calls of 7FP, the projects submitted were EVIPER, MICROGEST and NEWGOATPRO. TEICA has participated as principal beneficiary or as a partner in various calls of LIFE program, Modelling Biocontrol of *Listeria monocytogenes* in the Meat Industry, DEHESA VALOR and REWATER. Teica has carried out several projects financed by FEADER and FEDER funds. Programs POPTEC, POCTEFEX and GDR-FEADER.

Role in the project

Research; Training; Tech. Development; Management; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0173)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

Born in 2001, CTAEX has successfully developed more than 250 regional and national projects in cooperation with SME's, cooperatives and food companies associations of the Spanish agriculture and food sectors.

CTAEX counts with experimental farms, a pilot plant, and food specialised laboratories where to elaborate a wide variety of food products under safety conditions.

CTAEX has already led and participated in a vast number of projects, playing a key role in the project's results exploitation and dissemination via CTAEX's Office for Research Results Transfer Activities.

The Office meets the following objectives: Popularization of scientific and technological research results generated in CTAEX and associated enterprises, Technological Surveillance for companies and institutions from the Food and Agriculture sectors, protection of research results and commercialization of technologies.

Up to date, the Office for Research Results Transfer Activities has directly participated in 31 R&D Projects via: workshops, press releases, media appearances, scientific publications and CTAEX's webpage and weekly newsletter. The previous are means of dissemination that mostly reach SMEs and stakeholders of the agro-food sector.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

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Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

Address: Avda. de Elvas, s/n

Postcode: 06006

City: Badajoz

Country: Spain

Contact person: María García Rosa

E-mail: maria.garcia@fundecyt-pctex.es

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0174)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agro-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40 National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

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Expertise offered (related to the topic)

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0175)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
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Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

 **UNIVERSITY OF TURIN, FOOD-EES RESEARCH GROUP,**
R&D Institution
PROFILE from Italy
(14IT0176)

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food_EES represents an interdisciplinary group of research, made of sociologists, geographers, agronomists, rural and environmental economists of the University of Turin, interested in food, as a unique lens through which one can address key social science questions on resource shortfalls, environmental pressures and social development. We think that doing research on food provides important opportunities to solve questions about the prospects for a more secure, just and sustainable future, understanding the shifting boundaries between civil society, the market and the State.

Relevant R&D projects:

- 2012-2015 AFNIA, funded by Strategic Research Grant – Compagnia S.Paolo Foundation. Alternative Food Networks: An Interdisciplinary Assessment Theoretical from four disciplinary standpoints: economic, social, environmental and territorial.
- 2012-2013 ECOAGRO, funded by Piedmont Region, Innovation Pole. New approach for the environmental management and certification for agri-food industry.

Expertise offered (related to the topic)

Methods and tools (LCA methodology , social life cycle assessment, sustainability indicators multi-criteria analysis, Local Territorial System (LoT) model, modelling) for the analysis at various geographical level (sub-regional Italian, EU and international) of agro-food policies with an

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

interdisciplinary approach that considers the aspects related to the agro-food systems, the environmental and social aspect of sustainability and encompasses aspects such as resilience, panarchy among markets, governance, farmers' vulnerability

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0177)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policies

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

We advise our farmers in the process of the direct sale of their products, with the conversion to organic farming and to the creation of small agri-food businesses with a variety of activities (milk and other dairy products, meat, canned vegetables, beekeeping, animal feed, liquor).

In this advice we promote the use of the local products (the galician products are covered by a quality label and made with friendly environmental practices)

The 95% of our farmers have indigenous beef breeds, the 80% of them sale their products through a quality local label and they can sale its products 30% more expensive than its competitors). More of them are living in mountain areas.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policy



CENTIV GMBH

SME

*PROFILE from Germany
(14ES0317)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policy

ORGANIZATION EXPERTISE

ENTITY PROFILE

Centiv GmbH was founded in 2005 with the aim to undertake research and development for the food and food technology industry. Through the intensive projects activities - on national level (BMBF, DBU, AiF etc) as well as on international level (EU FP6/FP7) - CENTIV has created a network of contacts with SMEs around Europe. Additionally we started in 2011 producing and selling our own products (most of them certificated already BIO in Germany), all of them are high caloric powders to be used for energy personalized drinks and/or as additives to elderly people meals.

We have experience in:

- developing bioencapsulation system for bioactive compounds using different natural matrices
- development of emulsifying systems to produce stable multiple emulsions and other modified emulsions into a range of model food matrices, and investigate controlling the particle size and stability of the multiple emulsions
- development of new products with a main focus on agglomeration and spray-drying processes
- sensorial analysis and consumer acceptance
- exploitation and dissemination activities (e.g. knowledge auction, organizing workshops, meeting and other events, training (set up a staff development program).

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Expertise offered (related to the topic)

CENTIV offers different services - from the implementation of market and feasibility studies to contract research to the development of research & innovation projects for interested organizations.

CENTIV develops and markets innovative products and processes with and for the industry. Also developed own innovative products and processes (e.g. in the area of food additives for sick, elderly and sportive people).

DOMAINS OF INTEREST

novel bioactive components, new products, food and health, food quality, personalized food

- Food biotechnology: food additives and supplements, bioencapsulation, nanoencapsulation, multilayer emulsions, and controlled release of bioactive compounds
- Plant Food Science (plant and food metabolomics)
- Basic and applied food science of bioactive food compounds, functional foods, nutraceuticals, food for elderly
- Isolation, characterization and identification of bioactive compounds from plant extracts with relevant biological activity
- Agrifood research focuses on activities as developing new food (incl. BIO) products including functional foods closely with the food industry to assist them in meeting regulatory requirements for food safety and in improving various aspects of food quality
- Develop research to decrease obesity reducing the content of sugar, salt and fat in ready meals giving the satiety effect and having a satiety control, whilst maintaining comparable organoleptic properties and consumer acceptance
- Food structuring components and food product applications: food formulation incorporating new structuring components
- Biorefinery (new added-value molecules obtained from natural matrices (including waste) with benefits to nutrition and health) applied for food and non-food waste valorization, agri-food quality, authenticity and safety
- Use of specifically designed software for personalized receipts for specialized powder for drinks for sick, elderly and sportive people

Previous FP experience

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BioPower (AiF, national project): personalized powder for drinks for sportive and elderly people. The products presentation: www.mybiosportiv.de

HighTech Europe: the first european network in food processing, www.hightecheurope.com

TeRiFiQ: Combining Technologies to achieve significant binary Reductions in Sodium, Fat and Sugar content in everyday foods whilst optimising their nutritional Quality, www.terifiq.eu

GRAIL: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value, http://cordis.europa.eu/projects/rcn/110949_en.html

TRACEBACK (Integrated system for a reliable traceability of food supply chains) (<http://www.traceback-ip.eu/>)

AquAgriS (Environmental management reform for sustainable farming, fisheries and aquaculture) (www.aquagris.org)

AQUATERRE (Integrated European Network for biomass and waste reutilisation for Bioproducts) (<http://www.aquaterre.info/index.html>)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

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Partnership Profile

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policy



CEIA3 AGRIFOOD CAMPUS OF INTERNATIONAL EXCELLENCE

R&D Institution

*PROFILE from Spain
(14ES0370)*

TOPIC OF INTEREST

TOPIC

SFS-19-2014: Sustainable food and nutrition security through evidence based EU agro-food policy

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ceiA3, Agrifood Campus of International Excellence, is the largest Spanish center for research & specialized development. It is made up by the Universities of Almeria, Cadiz, Cordoba, Huelva and Jaen, and headed by the University of Cordoba, the National Scientific Research Council (CSIC), the Institute for Agricultural and Fisheries Development of Andalusia (IFAPA), and it has also achieved close cooperation with technology parks and a growing number of companies with innovative objectives.

The ceiA3 advances towards the future fully oriented to EU innovation policies based on the European H2020 strategy, on the EIP of Productive and Sustainable Agriculture, and also on the new challenges of the Common Agricultural Policy, whose strategy appears clearly defined towards the bioeconomy and sustainable agriculture.

Currently, ceiA3 has 285 research groups specialized in agriculture and the agrifood industry, with a human potential of over 4,000 people, divided into 16 thematic lines according to their affinity, from which 141 groups emerge with their own light, meeting excellence and scientific production criteria. They comprise 7 research clusters covering strategic areas of knowledge. Since 2009, the number of ceiA3 projects in International Research & Development Programmes totals 267, with a 237% increase in the last year.

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We promote the achievement of agreements with private companies and participation in open calls for public institutions, both national (INIA, Andalusia, MECD, etc.) and European (FP7, Horizon 2020, etc.), through which we aspire to ensure the future viability of this project, making it possible to continue our work without necessarily depending on funding through the CEI program calls.

These main lines of research and activity are:

- Biodiversity and the Environment
- Bioenergy
- Integrative Biology
- Food Quality and Safety
- Sustainable Territorial, Rural y Tourism Development
- Agricultural Economics, Policy and Law
- Soil Erosion, Conservation and Fertility
- Rural and Agrifood Engineering
- Plant Breeding and Health
- Animal Breeding and Health
- Nutrition and Health
- Chemistry and Agrifoods
- Water Resources
- Food Technology and Oenology
- Agricultural and Environmental Technologies
- Information Technologies and Biocomputing

Expertise offered (related to the topic)

The ceiA3 Campus of Excellence focuses its efforts on the agrifood sector, as guarantor of a safe food supply for the population and a key strategic axis. It links the community to the territory, generates economic activity and employment, and plays a crucial role for the maintenance of rural territories and the environment. In this crucial sector, the ceiA3 develops an essential potential which allows for the innovation of the Agrifood industry from the technological, organizational and commercial point of view.

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

The lines of research of our scientific groups cover all the fields related to Agrifood, from economical or legislative aspects to those which are related to the improvement and optimization of resources for either the vegetal or animal production. Our research teams work with the most innovative equipment and techniques in search for creative solutions for the Agrifood industry. Food quality and safety, as well as and its control during the whole production process, from the soil to the dish, are one of the key priorities in the work of our research groups.

In working to assure that these priorities are met, it is our understanding that University excellence requires, on one hand, the attraction and consolidation of talent and, on the other, collaboration with generators of knowledge that complement the university's training and research. For this purpose we are continually working towards the development of bilateral cooperation with international institutions in the Agrifood sector. For years we have collaborated, in teaching and research, with universities of excellence in Agribusiness, like those of California-Davis (U.S.), Concepción (Chile), Técnica de Lisboa (Portugal), Montpellier 2 (France), Wageningen (Netherlands), among others.

Likewise, we are developing agreements, between the Inter-American Institute for Cooperation on Agriculture (IICA) and the ceiA3. Agreements were also established with the INNOVAGRO Network in Latin America, with institutions for the development of the agrifood sector, with active participation in forums and definition of future strategies for collaboration. We have established projects involving not only participation in platforms linked to the agrifood sector, such as Food for Life, sustainable agriculture or Triptolemos platform, but also collaboration agreements with multiple major institutions , such as the Spanish Ministry of Agriculture, or Agropolis. Also, agreements with the Ministry of Agriculture and Environment of the Junta de Andalucía (Andalusian Government), the CIBERObn Institute, the FAO of the United Nations, the Spanish Agency for the Defense of the Competence and Parque Sur Uruguay, among others.

One of the primary objectives is to reinforce the partnership between research and producers and to promote the transfer of technology. In this way, the ceiA3 has established collaborations with national companies, and different types of institutions (national and regional government institutions, Interprofessional Organizations, Rural Development Groups, or D.O's, for example) seeking collaboration and knowledge transfer, but also the creation of university-industry synergies that allow us to look to Europe for the capture of funds, to encourage business development through research, enabling us to meet the sector's challenges.

As an example of our potential, a brief description of our Partnerships with companies and institutions for the development of validating and harmonizing analytical methods and quality parameters that specifically address technical authenticity issues; particularly those of olive oil, though there are other sectors involved as well:

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1. With Interprofesional del Aceite de Oliva Español (The Spanish Interprofessional organization of olive oil). Project title: "Identification of enabling technology to complement the EU analytical method called "Tasting Panel" in virgin olive oils".

This project involves the participation of six ceiA3 research groups and it is an ambitious partnership initiative of between Sector agents, Regional and National Administrations, and Research Centers and University.

2. With Sovena España, S.A. Project title: "Identification of the spectral fingerprint of different types of olive oil using ion mobility spectrometry".

Previous FP experience

With the Junta de Andalucía, Agency for Protection of Competition:

- "DEVELOPMENT OF A DATABASE QUALITY AGRIFOOD PRODUCTS" (34/2012) (in progress).

With Universidad de Córdoba. IPAFA, Junta de Andalucía:

- "Sensores MEMS y NIRS-imagen para el análisis no destructivo e in situ de productos animales y vegetales". P09 AGR-5129". Entidad financiadora: Proyecto de Excelencia. Convocatoria 2005. Profª ANA GARRIDO VARO. Total funding: 250.931,68 euros

OTHER PROJECTS: please note these are EXAMPLES, as the complete list includes 267+ ceiA3 international projects since 2009

- Title: Farm Animal Proteomics. COST Action FA1002. European Cooperation in the Field of Scientific and Technical Research. Duration, 2010 -2015. Resp. David Eckersall (University of Glasgow), Juan José Garrido Pavón (Management Committee) AGR-231

- Title: EADGENE. European Animal Disease Genomics Research Group for Animal Health and Food Safety. FP7 KBBE.2010.4-01. Duration, 2011 -2013. Resp. Juan José Garrido Pavón. AGR-231

- Title: A systems approach to minimize Escherichia coli O157:H7 food safety hazards associated with fresh- and fresh-cut leafy greens NIFSI nº 97170. USDA/CSREES/NIFSI Grants. Duration: 2007-2011. Resp. M. Doyle, Gonzalo Zurera (UCO). AGR-170

- Title: Cost Action "Feed For Health" (Fa0802). FP7-UE Duration 2008-2012 Representante COST (España), Ana Garrido Varo AGR-128

- Title: A systems approach to minimize Escherichia coli O157:H7 food safety hazards associated with fresh- and fresh-cut leafy greens NIFSI nº 97170 USDA/CSREES/NIFSI Grants Duration: 2007-2011 Resp. M. Doyle, Gonzalo Zurera (UCO) AGR-170

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- Title: EUI-2008-00114: Development of ultra-sensitive detection methods and plant nano-vaccines for the fungi *Fusarium* spp. using nanotechnological devices. AGR-252
- Title: Signalling circuitry controlling fungal virulence: identification and characterization of conserved and specific fungal virulence genes as common antifungal targets (ARIADNE) FP7-PEOPLE-ITN-237936 (Marie Curie Initial Training Networks). Duration 2009-2013. Resp. A. Di Pietro BIO-138
- Title: Host-induced gene silencing by RNAi in fungal and oomycete pathogens for healthier and safer food (RNAiGuard) Plant KBBE EUI2009-03942 Unión Europea-MICINN (ERA-NETs) Duration 2010-2013. Resp. A. Di Pietro.BIO-138
- Title: Transcriptional networks controlling virulence in filamentous fungal pathogens (TRANSPAT) Pathogenomics BIO 2008-04479-E Unión Europea-MICINN (ERA-NETs), Duration, 2009-2012. Resp. A. Di Pietro.BIO-138
- Title: Plant Proteomics in Europe (COST Action FA 0603). Duration 2007-2011. Resp. Jesús Jorrín Novo BIO-269
- Title: Alterations in membrane composition and function with calorie restriction NIH 1R01AG028125-01A1 (USA) Key investigator Resp. John J. Ramsey (University of California at Davis) Resp. JM Villalba BIO-276
- Title: Mechanisms Underlying Coping Strategies and Welfare In Farmed Salmon, Sea Bass and Sea Bream. FP7-KBBE. Duration 2010-2014. Resp. José Antonio Muñoz Cueto. RNM-216

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement



CTAEX TECHNOLOGICAL CENTRE

Technological Centre

*PROFILE from Spain
(14ES0178)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

CTAEX is a private not-for-profit Research, Development, and Innovation centre located in the south-west of Spain and backed by an association of food companies, SMEs and agricultural co-operatives.

CTAEX facilities and main activity areas are as follows:

Agricultural Dpt. counts with green houses and 25 hectares of experimental farms including 4 organic certified ones, indicated for pot trials and large scale cultivation.

Food Technology Dpt. counts with a fully equipped pilot plant, an experimental kitchen, a sensory evaluation lab and chambers indicated for shelf life studies, postharvest treatments and maturation and curing processes.

Food Science and Safety Dpt. which is highly specialized in agro-food matrixes analysis from chemical, physical and microbiological procedures, can also carry out the extraction, purification and isolation of active compounds found in Medicinal Plants and a agro-food by-products and residues.

Apart from the technical development of an R&D Project, CTAEX could carry out the Project Results Dissemination through its Office for Research Results Transfer Activities by means of dissemination that mostly reaches SMEs and stakeholders of the agro-food sector

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Up to date, CTAEX has successfully developed more than 250 projects, involving participation of national, European and Latin American partners.

Expertise offered (related to the topic)

Born in 2001, CTAEX has successfully developed more than 250 regional and national projects in cooperation with SME's, cooperatives and food companies associations of the Spanish agriculture and food sectors.

CTAEX counts with experimental farms, a pilot plant, and food specialised laboratories where to elaborate a wide variety of food products under safety conditions.

CTAEX has already led and participated in a vast number of projects, playing a key role in the project's results exploitation and dissemination via CTAEX's Office for Research Results Transfer Activities.

The Office meets the following objectives: Popularization of scientific and technological research results generated in CTAEX and associated enterprises, Technological Surveillance for companies and institutions from the Food and Agriculture sectors, protection of research results and commercialization of technologies.

Up to date, the Office for Research Results Transfer Activities has directly participated in 31 R&D Projects via: workshops, press releases, media appearances, scientific publications and CTAEX's webpage and weekly newsletter. The previous are means of dissemination that mostly reach SMEs and stakeholders of the agro-food sector.

Previous FP experience

INPROFOOD. Towards inclusive research programming for sustainable food innovations (FP7-Science in Society'11).

BIOCOPAC. Development of bio-based coating from tomato processing wastes intended for metal packaging (FP7-SME-2011-BSG-SME).

SATIN. Satiety Innovation (KBBE.2011.2.3-04).

MULTIHEMP. Multipurpose Hemp for industrial bioproducts and biomass (FP7-KBBE-2012-6-singlestage)

Value4Wool. Market Umbrella for the utilisation of low grade grease sheep wool as organic soil amendment and fertilizer (CIP-EIP-Eco-Innovation-2011).

SAVECROPS. Polivalent Biocides from local wastes (LIFE + 2011)

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Role in the project

Research; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: FUNDECYT-PCTEX

Organisation name: Fundación FUNDECYT Parque Científico y Tecnológico de Extremadura

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0179)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement



QUEIZUAR

SME

*PROFILE from Spain
(14ES0180)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

Queizuar is an SME, created in 1997 that produces traditional PDO cheese. It is located in Galicia the leading milk producer region in Spain, with approximately 55% of the Spanish dairy farms.

Nowadays, Queizuar-Bama processes 50.000 litres per day, producing 3 types of cheese: Arzua Ulloa Protected Denomination of Origin, Tetilla Protected Denomination of Origin and Fresh cheese.

Queizuar has been working in 5 R&D projects during the last 7 years:

1-"Estudio das alteracións superficiais aparecidas na produción de queixos das denominacións de orixe Tetila e Arzúa-Ulloa" (Study of surface alterations appeared in the production of PDO cheeses: Tetilla and Arzúa-Ulloa) – PGIDIT05TAL011E (Xunta de Galicia – Spain) – (2005-2008)

2-"Valorización dos soros de queixería mediante a produción de ingredientes alimenticios funcionais e produción de bioetanol" (Cheese whey valorization through the production of functional food ingredients and bioethanol) – PGIDIT07TAL006E (Xunta de Galicia – Spain) – (2006-2008)

3-"Obtención dun preparado lácteo funcional a partir dos soros de queixería" (Obtaining a Functional Dairy prepared from cheese whey) – PGIDIT09TAL002E (Xunta de Galicia – Spain) – (2008-2010)

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4- "Valorización dos soros de queixería mediante a produción de bioetanol" (Cheese Whey valorization through bioethanol production) – PGIDIT09REM001E (Xunta de Galicia – Spain) – (2008-2010)

5- "Valorización do soro de leite mediante a produción de bioetanol e dun novo produto con propiedades anti-hipertensivas" (Cheese whey valorization by producing bioethanol and a new product with antihypertensive properties) – FEADER 12/11 (Xunta de Galicia – Spain) – (2012-2013)

Expertise offered (related to the topic)

Queizuar is aware with the environment and sustainability, and its last four R&D projects are focused on reducing its fossil fuel consumption and reducing the cheese whey impact on the environment. Continuing with the effort of the company to contribute to low resources consumption Queizuar would work in future projects related with environment and sustainability.

Previous FP experience

Queizuar presented since 2011 three european projects as coordinators (2 Eurostars and 1 KBBE) and one KBBE project as partners. The last one has been elected to be financed by the EU, and it began the last 1st of November.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement



QUEIZUAR

SME

*PROFILE from Spain
(14ES0181)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

Queizuar is an SME, created in 1997 that produces traditional PDO cheese. It is located in Galicia the leading milk producer region in Spain, with approximately 55% of the Spanish dairy farms.

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1-"Estudio das alteracións superficiais aparecidas na produción de queixos das denominacións de orixe Tetila e Arzúa-Ulloa" (Study of surface alterations appeared in the production of PDO cheeses: Tetilla and Arzúa-Ulloa) – PGIDIT05TAL011E (Xunta de Galicia – Spain) – (2005-2008)

2-"Valorización dos soros de queixería mediante a produción de ingredientes alimenticios funcionais e produción de bioetanol" (Cheese whey valorization through the production of functional food ingredients and bioethanol) – PGIDIT07TAL006E (Xunta de Galicia – Spain) – (2006-2008)

3-"Obtención dun preparado lácteo funcional a partir dos soros de queixería" (Obtaining a Functional Dairy prepared from cheese whey) – PGIDIT09TAL002E (Xunta de Galicia – Spain) – (2008-2010)

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4- "Valorización dos soros de queixería mediante a produción de bioetanol" (Cheese Whey valorization through bioethanol production) – PGIDIT09REM001E (Xunta de Galicia – Spain) – (2008-2010)

5- "Valorización do soro de leite mediante a produción de bioetanol e dun novo produto con propiedades anti-hipertensivas" (Cheese whey valorization by producing bioethanol and a new product with antihypertensive properties) – FEADER 12/11 (Xunta de Galicia – Spain) – (2012-2013)

Expertise offered (related to the topic)

Queizuar is aware with the environment and sustainability, and its last four R&D projects are focused on reducing its fossil fuel consumption and reducing the cheese whey impact on the environment. Continuing with the effort of the company to contribute to low resources consumption Queizuar would work in future projects related with environment and sustainability.

Previous FP experience

Queizuar presented since 2011 three european projects as coordinators (2 Eurostars and 1 KBBE) and one KBBE project as partners. The last one has been elected to be financed by the EU, and it began the last 1st of November.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

 *UNIVERSITY OF TURIN, FOOD-EES RESEARCH GROUP,
R&D Institution
PROFILE from Italy
(14IT0182)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food_EES represents an interdisciplinary group of research, made of sociologists, geographers, agronomists, rural and environmental economists of the University of Turin, interested in food, as a unique lens through which one can address key social science questions on resource shortfalls, environmental pressures and social development. We think that doing research on food provides important opportunities to solve questions about the prospects for a more secure, just and sustainable future, understanding the shifting boundaries between civil society, the market and the State.

Relevant R&D projects:

- 2012-2015 AFNIA, funded by Strategic Research Grant – Compagnia S.Paolo Foundation. Alternative Food Networks: An Interdisciplinary Assessment Theoretical from four disciplinary standpoints: economic, social, environmental and territorial.
- 2012-2013 ECOAGRO, funded by Piedmont Region, Innovation Pole. New approach for the environmental management and certification for agri-food industry.

Expertise offered (related to the topic)

Comparative analysis on the sustainability of different food chains (short and long) and the effects of public policies. Methods and tools (LCA methodology , social life cycle assessment, sustainability

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indicators multi-criteria analysis, Local Territorial System (LoT) model, modelling, economics of conventions) for the analysis of the impact of EU quality policy with an interdisciplinary approach that considers the aspects related to the agro-food systems, the environmental and social aspect of sustainability and encompasses aspects such as resilience, panarchy among markets, governance, farmers' vulnerability , rural development.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

SFS-20-2015: Sustainable food chains through public policies: the cases of the EU quality policy and public sector food procurement



CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING AND OLIVE OIL

Technological Centre

*PROFILE from SPAIN
(14ES0378)*

TOPIC OF INTEREST

TOPIC

SFS-20-2015: Sustainable food chains through public policies: the cases of the EU quality policy and public sector food procurement

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

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b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the olive oil and table olive sector. Specific expertise in the topic is based in the following background and technological tools:

a. Market studies

b. Estudios for public administrations

c. Communication, dissemination and transfer of research results

d. Mangament and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement n°: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement n°: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

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FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain. Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0183)*

TOPIC OF INTEREST

TOPIC

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,

<http://www.juntadeandalucia.es/medioambiente/site/rediam>

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

We have participate in an international projet (MedMIS) which scope was very similar to those that this topic address, we have deployed a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>)

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 1 - 2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems, based on research and the deveolpment of decision support tools for Atlantic marine ecosystem management.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0184)*

TOPIC OF INTEREST

TOPIC

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems



*MARINE RESOURCES AND FISHERIES RESEARCH GROUP.
UNIVERSITY OF A CORUÑA*

R&D Institution

*PROFILE from Spain
(14ES0185)*

TOPIC OF INTEREST

TOPIC

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Marine Resources and Fisheries Research Group at UDC is a multidisciplinary group formed by biologists, oceanographers and social scientists with extensive experience in projects related to assessment and management of coastal ecosystems and fishery resources. The main research topics are marine population and community ecology, biology and population dynamics of exploited species, fisheries assessment and management, and remote sensing and Geographical Information Systems applied to environmental management. They have published approx. 200 scientific papers in international journals and have coordinated several R+D projects. Members of the group have founded two spin-offs (Lonxanet and Fismare) born from his research work, and they develop projects and consulting with businesses, public organizations and NGOs in topics related to sustainability and environmental management. Relevant projects:

1) Bridging the gap between science and stakeholders: Phase 1 – Common Ground (GAP), SiS-2007-CT- 217639. Séptimo Programa Marco - Unión Europea.

2) Gestión pesquera, sostenibilidad y conservación de la biodiversidad en el archipiélago de las Islas Cíes en el Parque Nacional de las Islas Atlánticas de Galicia. (034/SGTB/2007/1.4). Secretaria General para el Territorio y la Biodiversidad, Ministerio de Medio Ambiente.

3) Marine protected Areas In the Atlantic arc - MAIA (INTERREG IVB-2009-1/143). European Regional Development Fund-Atlantic Area, European Union.

4) Bridging the gap

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

between science, stakeholders and policy makers Phase 2: Integration of evidence-based knowledge and its application to science and management of fisheries and the marine environment. FP7-SiS-2010-CSA-266544.

Expertise offered (related to the topic)

The group has skills and experience in participatory action research working closely in collaboration with stakeholders and using intensively information technologies. The group and its members have carried out several projects involving the collaboration with fishing communities, stakeholder engagement in management, and integration of local ecological knowledge of communities into the scientific assessment process.

The research group has participated in the process of creation, design and implementation of several coastal fishery management plans (including Marine Protected Areas along the Galician coast), both as scientific advisors and facilitators of the integration of stakeholders in the decision-making process. The group has also taken part in the design of ecological and fishery monitoring systems for Galician MPAs, and is currently carrying out the ecological monitoring of several inshore MPAs along the coast of Galicia. The groups have developed international research and development projects in different countries in Africa (as Liberia and Sao Tome) and, especially, Latin America (Costa Rica, Mexico, Chile, Argentina, Brasil and Ecuador).

Previous FP experience

Two projects:
Bridging the gap between science and stakeholders: Phase 1 – Common Ground (GAP), SiS-2007-CT- 217639. Bridging the gap between science, stakeholders and policy makers Phase 2: Integration of evidence-based knowledge and its application to science and management of fisheries and the marine environment (GAP2), FP7-SiS-2010-CSA-266544.

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

Contact person: Jana Vavrinová

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems



BIO 123 UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES0303)*

TOPIC OF INTEREST

TOPIC

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our team has been actively researching the adaptations in the nitrogen and carbon metabolism observed in marine cyanobacteria, namely *Prochlorococcus* and *Synechococcus*, which are two of the main primary producers on Earth. Generally our studies are based on laboratory experiments under controlled conditions with living cultures of cyanobacteria of both genus, and our interest is focused on understanding the adaptations developed by these cyanobacteria in order to cope with the nutrient limitations and overall conditions of the environment in the open ocean. Recently we have also participated in cruises along the Atlantic Ocean, within the Atlantic Meridional Transect program, in collaboration with the team of Prof. Mikhail Zubkov. Our research has been focused thus far on different important enzymes of nitrogen metabolism in marine cyanobacteria (glutamine synthetase, glutamate dehydrogenase, isocitrate dehydrogenase, etc), on the regulatory mechanisms controlling the nitrogen/carbon balance, and more recently on the characterisation of the uptake and utilization of glucose in the open ocean by marine cyanobacteria. Therefore our research topics are closely related to those included in the topic BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems. Some relevant research projects are shown below:

Analyzing metabolism in an unusual nitrogen fixing symbiosis using metatranscriptomics, TRANSUCYNA. European Commission, FP7-PEOPLE-2013-IOF proposal 625188. 2014-2017

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organic carbon utilization and nitrogen metabolism in the marine cyanobacteria *Prochlorococcus* and *Synechococcus*. Junta de Andalucia - Excellence Projects: P12-BIO-2141. 2014-2017

Glucose utilization and adaptive and control mechanisms in the metabolism of nitrogen and carbon in *Prochlorococcus*. Spanish Ministry of Science and Innovation: BFU2009-08008/BMC. 2010-2013

Adaptive mechanisms and control pathways in the nitrogen and carbon metabolism in *Prochlorococcus*. Spanish Ministry of Science and Technology: BFU2006-10011/BMC. 2006-2009

Keys of the ecologic success of the marine cyanobacteria *Prochlorococcus*: proteome and gene expression studies focused on the nitrogen and carbon metabolism

Junta de Andalucia - Excellence Projects: P07-CVI-3055. 2008-2012

Nitrogen assimilation and Krebs cycle in marine and freshwater cyanobacteria: relationships and adaptive mechanisms. Spanish Ministry of Science and Technology: BMC2003-09218-CO2-01. 2003-2006

Molecular ecology of the photosynthetic procaryote *Prochlorococcus*, a key organism in marine ecosystems. MASTIII program, European Union: MAS3-CT97-0128. 1998-2001

Expertise offered (related to the topic)

We have long experience in the field of biochemistry and molecular biology of photosynthetic organisms, and specifically marine cyanobacteria, studying topics related with enzymology, enzyme regulation, gene expression, proteomics, etc. We keep a small collection of marine cyanobacteria, in order to carry out experiments with living cells to sample at different times in order to measure different parameters. Our background can greatly help to address topics related to the mechanistic understanding of element and energy flow in the system, as requested in this call. Besides, our studies are directly related to the goal of understanding the biogeochemistry of the open ocean, and therefore helping to support preservation and unlocking the potential for the sustainable production of new products. Some relevant papers directly related to this call are shown bellow:

Munoz-Marin MC, Luque I, Zubkov MV, Hill PG, Diez J & Garcia-Fernandez JM. (2013) *Prochlorococcus* can use the Pro1404 transporter to take up glucose at nanomolar concentrations in the Atlantic Ocean. *Proceedings of the National Academy of Sciences USA* 110 (21): 8597-8602.

McDonagh B, Dominguez-Martin MA, Gomez-Baena G, Lopez-Lozano A, Diez J, Barcena JA & Garcia-Fernandez JM (2012) Nitrogen starvation induces extensive changes in the redox proteome of *Prochlorococcus* sp. strain SS120. *Environmental Microbiology Reports*, 4 (2): 257-267.

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Rangel OA, Gomez-Baena G, Lopez-Lozano A, Diez J & Garcia-Fernandez JM (2009) Physiological role and regulation of glutamate dehydrogenase in *Prochlorococcus* sp. strain MIT9313. *Environmental Microbiology Reports* , 1: 56-64

Lopez-Lozano A, Gomez-Baena G, Munoz-Marin MC, Rangel OA, Diez J & Garcia-Fernandez JM (2009) Expression of genes involved in nitrogen assimilation and the C/N balance sensing in *Prochlorococcus* sp. strain SS120. *Gene Expression*, 14: 279-289.

Gomez-Baena G, Rangel OA, Lopez-Lozano A, Garcia-Fernandez JM & Diez J (2009) Stress responses in *Prochlorococcus* MIT9313 vs SS120 involve differential expression of genes encoding proteases ClpP, FtsH and Lon. *Research in Microbiology*, 160: 567-575.

Gomez-Baena G, Lopez-Lozano A, Gil-Martinez J, Lucena JM, Diez J, Candau P & Garcia-Fernandez JM (2008) Glucose uptake and its effect on gene expression in *Prochlorococcus*. *PLoS ONE* 3(10) e3416. DOI:10.1371/journal.pone.0003416

Gomez-Baena G, Garcia-Fernandez JM, Lopez-Lozano A, Toribio F & Diez J (2006): Glutamine synthetase degradation is controlled by oxidative proteolysis in the marine cyanobacterium *Prochlorococcus marinus* strain PCC 9511. *Biochimica et Biophysica Acta* 1760: 930-940.

Garcia-Fernandez JM, Tandeau de Marsac N & Diez J (2004) Streamlined regulation and gene loss as adaptive mechanisms in *Prochlorococcus* for optimized nitrogen utilization in oligotrophic environments. *Microbiology and Molecular Biology Reviews* 68-4: 630-638.

Garcia-Fernandez JM & Diez J (2004) Adaptive mechanisms of nitrogen and carbon assimilatory pathways in the marine cyanobacteria *Prochlorococcus*. *Research in Microbiology* 155-10: 795-802.

El Alaoui S, Diez J, Toribio F, Gomez-Baena G, Dufresne A & Garcia-Fernandez JM (2003) Glutamine synthetase from *Prochlorococcus*: characterization, phylogeny and response to nutrient starvation. *Environmental Microbiology* 5: 412-423

Lopez-Lozano A, Diez J, El Alaoui S, Moreno-Vivian C & Garcia-Fernandez JM (2002) Nitrate is reduced by heterotrophic bacteria but not transferred to *Prochlorococcus* in non axenic cultures. *FEMS Microbiology Ecology* 41-2: 141-150.

El Alaoui S, Diez J, Humanes L, Toribio F, Partensky F & Garcia-Fernandez JM (2001) In vivo regulation of glutamine synthetase activity in the marine chlorophyll b-containing cyanobacterium *Prochlorococcus* sp. strain PCC 9511 (Oxyphotobacteria). *Applied and Environmental Microbiology* 67: 2202-2207.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Gomez-Baena G, Diez J, Garcia-Fernandez JM, El Alaoui S & Humanes L (2001): Regulation of glutamine synthetase by metal-catalyzed oxidative modification in the marine oxyphotobacterium *Prochlorococcus*. *Biochimica et Biophysica Acta* 1566: 237-244.

Previous FP experience

Analyzing metabolism in an unusual nitrogen fixing symbiosis using metatranscriptomics, TRANSUCYNA. European Union FP7-PEOPLE-2013-IOF proposal 625188. 2014-2017

Molecular ecology of the photosynthetic procaryote *Prochlorococcus*, a key organism in marine ecosystems. MASTIII program, European Union: MAS3-CT97-0128. 1998-2001

Role in the project

Research; Training; Management; Dissemination; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0186)*

TOPIC OF INTEREST

TOPIC

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

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MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 2 - 2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture, based on the understanding of the ocean/climate interrelations to predict consequences of potential climate change.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project 's consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture



HCTECH (HERCULES CONTROL S.L.)

SME

*PROFILE from Spain
(14ES0187)*

TOPIC OF INTEREST

TOPIC

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

HCTECH is a technology-based company, started as a spin-off of CIS (Centro de Investigaciones Submarinas SL) in Santiago de Compostela (NW Spain). It was founded to improve the management and further develop the technical know-how gathered during 10 years of R & D in CIS. The company is dedicated to the designing and manufacturing of water quality monitoring systems, oceanographic devices and other marine technologies. These technological achievements are the result of collaborative projects with universities and technology centres, and they are aimed to the better protection of the seas and marine ecosystems. We are convinced that the best way to preserve water quality is through knowledge and through reliable environmental data, which is precisely what our technologies are looking for. We are designers, manufacturers and marketers of technological products capable of measuring in real-time the physical-chemical characteristics of water and the physical oceanographic conditions. The information gathered by our devices is then transmitted via GPRS, radio or satellite to a control center. The main competitive characteristics of our water quality monitoring system are the protection of the sensors against corrosion (antifouling) and the monitoring of the entire water column. The company is a SME whose staff has long expertise in R&D projects (telecommunication engineers, electronic and computing technicians, industrial engineers), and they are working in an individual 4 year project for the further evolution of the communication

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systems of our monitoring devices and for the integration of a microbiological sensor (for monitoring microbial – E. coli and others - pollution in coastal and fresh water). Current collaborative R&D projects in which HCTECH participates are aimed to achieve a better environmental performance of harbour dredging (Ecodraga Project, www.ecodraga.es), in cooperation with another three companies and four R&D public centers. HCTECH participates integrating our monitoring systems in the dredging vessel. The aim of the project is to achieve a vessel design that minimizes the dispersion of pollutants in the water column during dredging and depositing the dredged material. Our company focuses on monitoring the turbidity real-time, and on integrating a broad hardware-software system on board. This system will offer real-time, on-line, geo-referenced information about the sea-bottom topography during the dredging process, based in interferometry. The objective is to increase the efficiency of the dredging process having the sediment volume calculations and the dredged area information available quickly and accurately. HCTECH also participates in a project for monitoring the constructive stability of harbour structures exposed to strong ocean waves impacts (which is in its initial stages). This project integrates ecosounding, LIDAR images and in-situ sensors for monitoring the stability of concrete blocks and the evolution of these structures through time.

Expertise offered (related to the topic)

HCTECH is integrated by telecommunication engineers, industrial engineers, and electronic and computing technicians, all of them with experience in R&D project execution and management. Up to 9 people are working now for the company. HCTECH started in 2011, but its staff comes from working in research projects in the University of Vigo, and from the R&D department of CIS (Centro de Investigaciones Submarinas) where they participated in more than a dozen R&D projects in the area of ocean monitoring, water quality monitoring and marine resources for the last 10 years (BAIP2020, Ecodraga, ProCIS, XeoTV, Hidroboya, integrating heavy metal sensors, and microbiological pollution sensors, RAIACo...)

Previous FP experience

HCTECH has no previous experience in international/european collaborative projects, but as stated before, has strong expertise in national and regional collaborative R&D projects.

Role in the project

Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

 **LOLIGO SYSTEMS APS**

SME

*PROFILE from Denmark
(14DK0188)*

TOPIC OF INTEREST

TOPIC

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

In the year 2002 Loligo® Systems started as a spin-off from the University of Copenhagen in Denmark. Since then we have been devoted to the development of unique scientific equipment primarily for measuring oxygen consumption rates, swimming performance and behavior in aquatic animals.

Today Loligo® Systems is a triple A (AAA) company, and more than 500 scientists in 50 countries use Loligo® equipment in their research. As a result several hundred peer-reviewed papers in international scientific journals refer to the use of Loligo® equipment. Product applications range from basic research in aquatic animal respiration, exercise physiology, ecophysiology, bioenergetics and behavior, to more applied research using Zebrafish and other model animal systems for ecotoxicology, neuroscience or biomedicine.

Expertise offered (related to the topic)

1) Aquatic animal respiration measurements including micro plate systems for bioassay-sized organisms, and swim tunnel respirometers; 2) animal behavior video analysis software and test systems; 3) sensors and instruments for water quality monitoring and control (O₂, CO₂, temperatur, salinity, pH, flow, turbidity) including fiber optic sensing technologies.

Previous FP experience

None

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0189)*

TOPIC OF INTEREST

TOPIC

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

 **ISTITUTO ZOOPROFILATTICO SPERIMENTALE PIEMONTE LIGURIA E VALLE D'AOSTA**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0190)*

TOPIC OF INTEREST

TOPIC

BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta is an health governmental body founded in 1912. The Institute tasks are to guarantee consumer's health by protecting animal population health and welfare and by improving and controlling food and feed production, thus enhancing the safety levels for food and feed: it supports local and national veterinary services in epidemiological analysis, food hygiene and environmental control activity and research activity. National and local veterinary services, and professional veterinarian, breeders, food manufacturers and consumers too, can address to our Institute for scientific and technical advices, controls and animal health diagnostics. Projects:

- European Network: Concerted Action SRTSE. European network for surveillance and control of TSE in Small ruminants (5th Framework).
- Slovakia - Twinning project for the implementation of a TSE surveillance system in Slovakia: participation as expert on genetics and TSE diagnosis.
- Germany - Tutor in the BTSF "Training on the prevention, control and eradication of Transmissible Spongiform Encephalopathies".

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Netherlands- Central Veterinary Institute (CVI), Wageningen University and Research Centre di Lelystad: "Project Goat BSE Neuroprion"
- Netherlands – CIDC, Lelystad: " Research project under the call EMIDA and for the study of analytical sensitivity of all the approved rapid tests against atypical forms of BSE"
- UK - VLA Weybridge: PROJECT NADIR "Atypical scrapie to cattle - is there a risk?"
- CIDC-Lelystad; INRA- France; IAH-UK; CISA-INIA-Spain; UNIZAR- Spain; FLI-INEID- Germany; CERTH-INA –Greece; CEA-France: "Specific Targeted Research Project (STREP), "GoatBSE: Proposal for improvement of goat TSE discriminative diagnosis and susceptibility based assessment of BSE infectivity in goat milk and meat".
- Germany-Uk-Belgium: "SANCO TrainSaferFood European Training Platform for Safer Food courses: Workshop on Prevention, control and eradication of Transmissible Spongiform Encephalopathies".
- France- Spain- UK- Greece- Germany: "EMIDA-ERANET: "Goat-TSE-Free; Towards breeding of goats for genetically determined TSE resistance".
- Macedonia – Strumica (Skopje). Capacity building of the veterinary service for implementation of EU Acquis - FYROM (2010/244-472)", Publ. ref: EuropeAid/128546/C/SER/MK, for "Training course on animal by products (ABP) and transmissible spongiform encephalopathies (TSE) ".
- Network of Excellence – Prevention, Control and Management of Prion Disease (NEUROPRION).

Expertise offered (related to the topic)

One of the main tasks of interested of IZSPLVA is to develop, standardize and validate biological and analytical methods to investigate some of the effect of climate changes on aquaculture like shell fish toxins and new diseases spread.

Our work is strictly related with statisticians that develop our study design in order to obtain useful data.

Our activity consists in development and validation of screening methods to detect DSP and palitoxins based on rapid tests and in standardization of integrated protocols to identify new disease of aquatic animals based on necropsy, infectious agents identification and characterization of microscopic related lesions.

Wide experience in standardization and evaluation of rapid tests (ELISA, immunocromatography, WB), in validation of laboratory techniques to identify infectious agents and in setting and validation of histological and immunohistochemical stainings applied to detect animal diseases.

Previous FP experience

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Fifth Framework Programme of the European Community for Research, Technological development and Demonstration activities (1998 - 2002):

Network For Surveillance And Control Of Tse In Small Ruminant;

Sixth Framework Programme of the European Community for Research and Technological Development and demonstration activities (2002 – 2006):

NeuroPrion

Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 - 2013):

STREP: Specific Targeted Research Project, "Goat BSE: Proposal for improvement of goat TSE discriminative diagnosis and susceptibility based assessment of BSE infectivity in goat milk and meat".

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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Country: Italy

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E-mail: d.vismara@pie.camcom.it

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0191)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agri-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40 National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



EUROESPES BIOTECNOLOGÍA

SME

*PROFILE from SPAIN
(14ES0192)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ebiotec is a Spanish company founded in 2001, focused on research and development of innovative nutraceutical and technology services applied to health and human and animal consumption, allowing early diagnosis, disease prevention and individualized treatment. R&D activities:

- Molecular mechanisms of neuroinflammation.
- Receptors and signal transduction mechanisms.
- Development and function of neural networks.
- In vitro models of cultured neuronal embryonic cells.
- Models of in vitro primary neurons, microglia and astroglia cell cultures.
- In vitro models of tumor cell lines.
- In vivo models of neurodegeneration.
- In vivo models of inflammation.
- In vivo tumorigenesis models.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Biotechnology department at Ebiotec has been working since 1995 to the development of nutraceuticals from marine organisms. Many articles have been published on international journals, and different nutraceuticals have been developed for human consumption and are already in the national and international market. One of the main interest, related to the BG-3-2014 topic, is to look at the possibility of a better use of discarded fisheries materials. We are already in contact with different Galician, Italian, French and Portuguese private companies and public research institutes interested in developing new marine derived biomolecules.

Previous FP experience

Ebiotec is involved in the seventh framework programme (theme 2): Food, Agriculture and Fisheries, and Biotechnology. Project full title: Exploring Marine Resources for Bioactive Compounds: From Discovery to Sustainable Production and Industrial Applications". Project acronym: MAREX.

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



FUNDACIÓN ANDALTEC I+D+I

SME

*PROFILE from Spain
(14ES0193)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

ANDALTEC was created in 2003 is high-tech SME with research capacities recognized as National Plastic Technological Centre in Andalusia (Spain). Its main objectives focus on improving the competitiveness of companies mainly of plastics and processed metals sectors and strengthening the economy through research, technological development and innovation. We are a non-profit organization. The organisation is made up of a professional staff of over 90 employees from diverse technical specialization. This team consists on PhD, PhD students, Engineers, Designers, Chemistry and Physics Graduates. In addition, ANDALTEC personnel include experts in the field of polymers who know the industrial reality in depth and provide appropriate solutions which best meet the needs of enterprises.

ANDALTEC enjoys excellent working relationships with the enterprises in the plastics sector in Andalusia, with other technological centres, universities and research centres around Europe, with whom key R&D projects have been carried out.

Our R&D projects lines can be summarized as follows: Product and process design, productivity improvement, environmental issues, new materials, and packaging solutions.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise in small-scale bioreactor design and operation. Subproducts valorisation. Eco-friendly end-products desing, production and phisico-chemical characterisation.

Previous FP experience

SUSFOFLEX: Advanced and flexible technologies for active, intelligent and sustainable food packaging. (FP7-KBBE 2011-5)

PMJOIN: Development of a Direct Laser Joining of hybrid Plastic-Metal components for industrial applications. (FP7-NMP.2012.2.1.1)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Mª Dolores Guillén

Telephone: 34955007478

E-mail: mariad.guillen.ruiz@juntadeandalucia.es

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

 *INST. OF CHEMICAL ENGINEERING, BIOTECHNOLOGY & ENVIRONMENTAL TECHNOLOGY, UNIVERSITY OF SOUTHERN DENMARK*

R&D Institution

*PROFILE from Denmark
(14DK0194)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

General activity (Biofuel production): Biogas plant and optimization of biogas process. Enzymatic transesterification, and enzymatic degradation of waste. Industrial unit operations, which include membrane technology, process optimization using sensor technology, and on-line methods (NIR and Raman spectroscopy). Life cycle analysis. Relevant R & D projects within biogas, biodiesel, biohydrogen and bioethanol production.

General activity (Protein technology and industrial applications of microorganisms). The research focuses on identification and characterization of proteins (e.g. enzymes) with potential industrial applications and the production of heterologous proteins and different metabolites. Proteins are studied using different techniques including chromatography, gel electrophoresis and mass spectrometry. Heterologous/recombinant proteins are expressed in bacteria and yeast cells. The gene encoding the protein of interest is isolated and amplified by PCR and transferred to the microorganism (molecular cloning). The genetically modified microorganisms are cultured in bioreactors, and the expressed heterologous protein is purified from the cells. Relevant R & D projects within protein technology and industrial microbiology.

General activity (Bioactive compounds and pharmaceuticals): Natural products chemistry incl. bioactive compounds for the treatment and prevention of life-style diseases. Identification of health

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

promoting compounds in plants, micro-organisms and algae by bioassay-guided fractionation. Relevant R & D projects within identification of bioactive compounds with effect on obesity, type 2 diabetes, inflammation and cancer for the development of functional foods and pharmaceuticals.

General activity (Chemical and biotechnology plants): Fermentation and bioreactor design and separation process. Membrane separation processes and nanofiltration techniques. Modelling and simulation of chemical technical and biotechnical plants for industrial production. R & D projects within chemical technical and biotechnical plants for refining and industrial production of special products (e.g., pharmaceuticals and nutraceuticals) from natural resources.

Expertise offered (related to the topic)

Biofuel production. Fermentation and bioreactor design. Industrial unit operations: membrane technology and nanofiltration techniques and process optimization using sensor technology (wireless sensors) and on-line methods. Modelling and simulation chemical technical and biotechnical plants for industrial production. Refining and industrial production of special products from natural resources. Protein technology and industrial microbiology.

Life cycle analysis and waste management.

Natural products chemistry and analytical chemistry. Characterization of bioactive compounds from natural resources for the treatment and prevention of life-style diseases for the development of functional foods and pharmaceuticals.

Biosystems Engineering. Robot technology and wireless sensor systems.

Previous FP experience

Experience from projects in various FP programmes, such as FP5, FP6 and FP7 as well as Interreg IIIa and IVa, COST actions etc.

Role in the project

Research; Training; Tech. Development; Management;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

■ ■ ■ 791

 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



PRONAMAR. UNIVERSITY OF A CORUÑA

R&D Institution

*PROFILE from Spain
(14ES0195)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

General activity: Our group PRONAMAR (Marine Natural Products, website: www.pronamar.com) is integrated into the research group QOSBIOS at the University of A Coruña. The main goal of PRONAMAR is the search for new bioactive natural substances, mainly from marine organisms, and the development of their applications, either from themselves or from their derivatives through synthetic processes.

Relevant projects:

PROJECT: "New antitumor compounds from Indopacific marine organisms. Synthesis of cytotoxic steroids"

SPONSOR: Xunta de Galicia (XUGA 10301A97), 1998-2000.

PROJECT: "Isolation and structural characterization of new analogues of tetradoxin"

SPONSOR: Ministry of Education and Science, (PTR1995-0937.OP), 2006.

PROJECT: "Heteronuclear coupling constants studies for the relative stereochemistry determination in 1,2 and 1,3 acyclic nitrogen chiral centers "

SPONSOR: Ministry of Education and Science, (CTQ2008-04024P), 2008.

PROJECT: "Isolation and structural characterization of the siderophores produced by *Photobacterium damsela* subsp *piscicida*, preparation of analogues and their application to the development of new antimicrobials"

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SPONSOR: Ministry of Education and Science, (AGL2009-12266-C02-02P), 2009.

Expertise offered (related to the topic)

We have a lot of experience in the isolation of any kind of structure from any type of natural source. New methodologies in the isolation of hydrosoluble natural products from marine sources: We have developed and published the application of hydrophilic-lipophilic balance (HLB) cartridges in the isolation of very polar natural compounds (see J. Chromatogr. A, 2011, 1218, 1790). We are developing new strategies in the structural elucidation of the relative stereochemistry of acyclic compounds using the J-based configurational analysis coupled with molecular modeling studies at DFT level (see J. Org. Chem., 2010, 75, 7227).

Previous FP experience

"Studies on the Bacterial Stress response and stress-induced cross-resistance (Bacterial Stress)"

SPONSOR: (Marie Curie International Incoming Fellowship), VII Framework Program of the European Union, (PIIF-GA-2010-274660), 2011.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



ARESEARCH GROUP: "DEGRADACIÓN DE TÓXICOS ORGÁNICOS" (BIO-191). ESTACIÓN EXPERIMENTAL DEL ZAIDÍN (CSIC)

R&D Institution

*PROFILE from Spain
(14ES0279)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Estación Experimental del Zaidín of the CSIC is an agrobiological research institute conducting basic research in plant science, microbiology, and environmental protection. The various research programmes include the optimization of crop yield and resistance for a sustainable and environmentally friendly agriculture, the study of plant-microbe interactions and symbiotic systems, and the development of microbial bioremediation systems. The institute currently carries out numerous european, national, and regional research projects, among others: study of the molecular basis of stress response to reactive oxygen species in plant peroxisomes (BIO2012-36742), sugar signaling in plant carbon metabolism (BIO2012-33292), biotechnological relevance of Na⁺ and K⁺ transporters for improving salinity resistance and K⁺ nutrient efficiency in tomato (CVI-7558), involvement of cation/proton antiporters in potassium nutrition and osmotic and salinic stress (BIO2012-33655), storage proteins in olive tree seeds (CVI-7487), the PUMA3 regulatory system in *Pseudomonas putida aeruginosa* (FP7-PEOPLE-2011-CIG, 303813), signal transduction mechanisms for biofilm formation (CVI-7335), the role of chemotaxis of soil bacteria for root colonization (RNM-4509M), root-targeted strategies for minimizing abiotic stress in horticultural crops (PCOL-SMALL 289365), and the role of cyclic di-GMP in plant-microbe interactions (BIO2011-23032).

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Dr. Basler studied computer science with biology as secondary subject at the Humboldt University of Berlin, and wrote his master's thesis at the Max-Planck-Institute of Molecular Plant Physiology (MPI-MP) in Potsdam. Within the thesis, he developed a database tool for integrating biological sample information from greenhouse plants with experimental data, and applied machine learning methods to the functional classification of compounds using mass spectra. He conducted his PhD in the Systems Biology and Mathematical Modeling group at the MPI-MP, where he developed a computational method for hypothesis testing and growth optimization using genome-scale metabolic networks. In 2013, he was awarded a Marie Curie Intra European Fellowship for an interdisciplinary project aiming at the identification of novel biotransformation pathways for the production of valuable chemicals. The project is highly interdisciplinary, as it is based on the integration of computational modeling with experimental approaches for genetic engineering. The main focus of the research of Dr. Basler is the computational discovery of genetic engineering strategies for chemical production in microorganisms and improving growth properties of crop plants, and their experimental application. His knowledge in computational methods is complemented by experimental techniques in genetic engineering.

Previous FP experience

Dr. Basler has obtained a Marie Curie Intra European Fellowship for Career Development (FP7-PEOPLE-2012-IEF 329682, project "PSEUDOMODEL"), 2013-2015.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: María Fernández Santa-Cruz

E-mail: maria.fernandezsantacruz@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



TECHNOLOGIES FOR INDUSTRIAL BIOPRODUCTS
DEVELOPMENT. UNIVERSITY OF SANTIAGO DE
COMPOSTELA

R&D Institution

*PROFILE from Spain
(14ES0196)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

TIBD from University of Santiago de Compostela was created by joining two groups, the first one with a wide experience regarding the research of the extraction of flavonoids and other polyphenols from plants and bioactive components from seaweeds, the second one with a wide experience in drying processes, food rheology and research on gluten-free dough. The main research topics are the development of ultrasound-assisted processes for seaweed extraction of bioactive components, preparation characterisation of gluten-free dough, convective drying and the characterization of starch-based functional foods including extracts from plants and seaweeds.

Previous projects that define our expertise are the following :

"Technological flair for the industrial processing of gluten-free flour doughs. Additives and Thermomechanical and Rheological characterization." CTQ 2010-15309/PPQ. Ramón Felipe Moreira Martinez. National Grant. 01/2011-12/2013.

"Obtaining of algae liquid extracts from Galician coast resources as an added value product to be used in agriculture and cosmetics". PGIDIT10MMA007CT. Jorge Sineiro Torres. Regional Grant. 08/2010-09/2013.

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"Evolution of the physical-chemical properties of systems with high content of starch obtained in osmotic-convective drying processes and rheological characterization of the mixture with water." National Grant. Ramón Felipe Moreira Martinez. CTQ 2007-62009/PPQ. 08/2007-08/2010

"Obtaining of taylor-made proanthocyanidinic fractions for grape marc and other subproducts." María José Núñez García. National Grant. AGL-2006-1210-C03-03. 10/2006-09/2009.

Expertise offered (related to the topic)

Our experience is oriented to obtaining functional starch-derived foods by extraction of bioactive compounds from seaweeds to be applied gluten-free fortified dough, which can be studied at all stages of processing, from flour preparation to cooking.

Our facilities include pilot-plant ultrasound processing unit DrHielsher, two convective pilot-plant dryers, rheometer for dynamic rheology Anton Paar, rotary and capillar viscometers, micronizer Retsch, surface tension measurement Lauda, Mixolab unit for preparing and charactrisation of dough, climatic chamber Angelonni 250, two gel filtration preparative columns (7x100 cm), UV detector for chromatography columns, chromatography A/D converter and software eDAQ, fractions collector Bio-Rad, Freeze Dryer FTS Kinetics EZDry, ultrafreezer New Brunswick, rotary incubator New Brunswick Innova40, HPLC Jasco, spectrophotometer Jasco UV530.

Previous FP experience

Jorge Sineiro participated in OLNOCO Project from IV Framework Programme, which was developed by Universidad de Santiago de Compostela (coordinator, Spain), Universidad Catolica de Valparaiso, Intituto de Biotecnología (UNAM , Mexico), Universidade do Porto (Portugal) and Universidad de Vigo (Spain).

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

■ ■ ■ 797

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0197)*

TOPIC OF INTEREST

TOPIC

BG-3-2014: Novel marine derived biomolecules and industrial biomaterials

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-4-2014: Enhancing the industrial exploitation potential of marine-derived enzymes



DMC RESEARCH CENTER S.L.

SME

*PROFILE from SPAIN
(14ES0198)*

TOPIC OF INTEREST

TOPIC

BG-4-2014: Enhancing the industrial exploitation potential of marine-derived enzymes

ORGANIZATION EXPERTISE

ENTITY PROFILE

DMC Research Center is dedicated to the development and manufacturing of a broad range of compounds and ingredients for the food industry. DMC Research Center was set up in 2005 from the R&D Department of DOMCA SAU, created in Barcelona in 1977 and subsequently moved to Granada in 1980. Since the set-up DMC has been developing new products that provide essential solutions in the food sector. Traditionally DOMCA has broad experience in the field of functional coatings and the preservation of dairy and meat products, and it also produces other mixtures of additives for agro-food industries.

The experience of DMC has allowed the diversification of research until the development of concrete solutions for any food sector. Since 1993, DMC's key research area has been on active principles with antimicrobial properties from natural sources, either of plant or microbial origin. The studies have looked at and developed valid alternatives for preservation in the food industry (dairy, meat, fruit and vegetable sectors, among others). DMC Research Center facilities include laboratories, applications and quality, of production lines, storage warehouses and offices. DMC Research Center has the most advanced production methods to ensure an efficient, uniform, top quality supply.

The Company has patents related to human and animal nutrition and collaborates with a number of national and international universities and research centers. It has been involved in more than 40 National R&D Projects and has been involved as well in publications, 8 articles have been published by the company, five of them in international magazines

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

- 1.- Research and development of products from natural origin (vegetable or microbial), with biological capacity.
- 2.- Development of natural antimicrobials with a wide spectrum (antibacterial and antifungal) as preservatives in the food industry.
- 3.- Selective products against specific emergent foodborne pathogens (i.e. *Listeria monocytogenes* and *Campylobacter jejuni*).
- 4.- Natural additives as substitutes of the antibiotics used in animal feeding growth-promoters, including Aquaculture sector.
- 5.- Application of antagonist microorganisms for the control of diseases in post-harvest.
- 6.- Study of different supports for the dosage of the developed active principles and their inclusion in the appropriate systems.
- 7.- Development of natural products for disinfection of environmental industrial premises, as well as farming treatments (pre- and post-harvest).
- 8.- Study of potential applications in pharmaceutical industry, due to the antiviral power of some products developed.
- 9.- Advice services for concrete sets of problems, with personalised studies and search of solutions for different sectors of food industry.

Previous FP experience

DMC Research Center has a large experience in collaborative national projects and also has experience with the elaboration of FP projects.

Role in the project

Research; Training; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

City: Sevilla

Country: Spain

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E-mail: cristina.cabeza@juntadeandalucia.es

■ ■ ■ 803

 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-4-2014: Enhancing the industrial exploitation potential of marine-derived enzymes



RESEARCH GROUP "DEGRADACION DE TOXICOS ORGANICOS" (BIO191)

R&D Institution

PROFILE from Spain
(14ES0199)

TOPIC OF INTEREST

TOPIC

BG-4-2014: Enhancing the industrial exploitation potential of marine-derived enzymes

ORGANIZATION EXPERTISE

ENTITY PROFILE

Tino Krell heads the Laboratory of bacterial Sensing and Signal Transduction (<http://krell-laboratory.com/>) at the CSIC Institute Estación Experimental del Zaidín (<http://krell-laboratory.com/>). The laboratory studies modes by which sensor proteins detect environmental signals and ITC plays a central role in their research. Using ITC the laboratory has established many collaborations to study diverse molecular interactions.

Expertise offered (related to the topic)

Precise characterization of molecular interaction using microcalorimetry

To understand the molecular mechanisms of biological processes, knowledge on the molecular interaction of participating molecules is essential. Isothermal titration calorimetry (ITC) is now recognized as the Gold standard technique to study the molecular interaction between two ligands. An ITC experiments permits the determination of the full set of thermodynamic binding parameters in a single experiment (association constant K_A , dissociation constant K_D , enthalpy change, entropy change and Gibbs free energy change) and can provide useful information on the binding stoichiometry. An ITC experiment consists in a titration of one ligand with another and heat changes resulting from binding processes are measured. Ligands are both in solution and there is no need for

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their chemical modification. Since any type of binding causes heat changes ITC permits to analyze all types of molecular interaction.

Tino Krell is a recognized microcalorimetry expert with more than 50 research articles in this field. He has used ITC to study the interaction between two different proteins (for example Daddaoua et al. (2013) Nucleic Acids Res. In press, Busch et al. (2009) J. Biol. Chem. 284:10353), proteins and DNA (Lacal et al. (2008a) J. Mol. Biol. 384:1037, Lacal et al. (2008b) J. Mol. Biol. 376:325, Guazzaroni et al. (2007) J. Mol. Biol. 369:927, Krell et al. (2007), J. Mol. Biol. 369:1188), proteins and small ligands (for example Garcia-Fontana et al. (2013) J Biol Chem. 288, 18987, Rico-Jiménez et al. (2013) Mol. Microbiol. 88,1230, Pineda-Molina et al. (2012) PNAS 109:18926, Arce-Rodríguez et al. (2012) Environ Microbiol. 14:702, Fillet et al. (2011) PNAS 108(37):15372, Busch et al. (2007) PNAS 104:13774, Lu et al. (2010) Lu et al. Genes Dev. 24:2556, Lacal et al. (2006) PNAS 103:8191) or peptides and small ligands (Santamaría-Hernando et al. (2012) PLoS One. 7:e40698). Since ITC is an universally applicable technique there is almost no limitation as to the choice of ligands and there is significant amount of literature that has described the ITC study of small molecules, RNA, carbohydrates, lipids, sugars etc.. In addition ITC is a universal assay for enzymatic activities (see Todd & Gomez (2001) Anal Biochem. ;296:179-87).

Previous FP experience

External advisor of the Euroneut-41 FP project on the development of an European anti-HIV vaccine (total budget 12 million Euros)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: María Fernández Santa-Cruz

■ ■ ■ 805

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

E-mail: maria.fernandezsantacruz@juntadeandalucia.es

■ ■ ■ 806



Partnership Profile

BG-6-2014: Delivering the sub-sea technologies for new services at sea



FUNDACIÓN ANDALTEC I+D+I

SME

*PROFILE from Spain
(14ES0200)*

TOPIC OF INTEREST

TOPIC

BG-6-2014: Delivering the sub-sea technologies for new services at sea

ORGANIZATION EXPERTISE

ENTITY PROFILE

ANDALTEC was created in 2003 is high-tech SME with research capacities recognized as National Plastic Technological Centre in Andalusia (Spain). Its main objectives focus on improving the competitiveness of companies mainly of plastics and processed metals sectors and strengthening the economy through research, technological development and innovation. We are a non-profit organization. The organisation is made up of a professional staff of over 90 employees from diverse technical specialization. This team consists on PhD, PhD students, Engineers, Designers, Chemistry and Physics Graduates. In addition, ANDALTEC personnel include experts in the field of polymers who know the industrial reality in depth and provide appropriate solutions which best meet the needs of enterprises.

ANDALTEC enjoys excellent working relationships with the enterprises in the plastics sector in Andalusia, with other technological centres, universities and research centres around Europe, with whom key R&D projects have been carried out.

Our R&D projects lines can be summarized as follows: Product and process design, productivity improvement, environmental issues, new materials, and packaging solutions.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

At the present we are working in a R&D project devoted to the same topic. We can work in the desing of plastic parts, perform fluid simulations, aeging studies, cost and environmental analysis, etc.

Previous FP experience

SUSFOFLEX: Advanced and flexible technologies for active, intelligent and sustainable food packaging. (FP7-KBBE 2011-5)

PMJOIN: Development of a Direct Laser Joining of hybrid Plastic-Metal components for industrial applications. (FP7-NMP.2012.2.1.1)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Mª Dolores Guillén

Telephone: 34955007478

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■ ■ ■ 808

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-6-2014: Delivering the sub-sea technologies for new services at sea



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0201)*

TOPIC OF INTEREST

TOPIC

BG-6-2014: Delivering the sub-sea technologies for new services at sea

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

■ ■ ■ 809

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 6 - 2014: Delivering the sub-sea technologies for new services at sea, based on the research of technologies to remotely execute underwater operations (observation, data collection and transmission of information and technologies based on ROVs, AUVs, etc.).

We have collaborate in an international projet which scope was very similar to those that this topic address, we have participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collected information on marine protected areas and gather data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

We have also participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use

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with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project ´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

■ ■ ■ 813

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-6-2014: Delivering the sub-sea technologies for new services at sea



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0202)*

TOPIC OF INTEREST

TOPIC

BG-6-2014: Delivering the sub-sea technologies for new services at sea

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-6-2014: Delivering the sub-sea technologies for new services at sea



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0203)*

TOPIC OF INTEREST

TOPIC

BG-6-2014: Delivering the sub-sea technologies for new services at sea

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.
- Computer vision:
  - * Quality control systems

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

* Robot control systems with computer vision

- Robotics:

* Design and implementation of robotic systems

* Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

* Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

Telephone: 0034 955 007 497

E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-7-2015: Response capacities to oil spills and marine pollutions



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0204)*

TOPIC OF INTEREST

TOPIC

BG-7-2015: Response capacities to oil spills and marine pollutions

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-7-2015: Response capacities to oil spills and marine pollutions



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0205)*

TOPIC OF INTEREST

TOPIC

BG-7-2015: Response capacities to oil spills and marine pollutions

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicules

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- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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City: Sevilla

Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-7-2015: Response capacities to oil spills and marine pollutions



RESEARCH GROUP "DEGRADACION DE TOXICOS ORGANICOS" (BIO191). ESTACIÓN EXPERIMENTAL DEL ZAIDÍN (CSIC)

R&D Institution

*PROFILE from Spain
(14ES0275)*

TOPIC OF INTEREST

TOPIC

BG-7-2015: Response capacities to oil spills and marine pollutions

ORGANIZATION EXPERTISE

ENTITY PROFILE

The mission of the EEZ Institute is to become a centre of excellence on plant sciences, microbiology and environmental protection by carrying out fundamental and strategic research aimed at the understanding and exploitation of plants, microbes and their relationships, with especial emphasis on crop yield, quality, valuable products and the improvement of the environment, to make its findings available to the society, and to disseminate new knowledge, technology and know-how to meet the needs of end-users.

Within the Institute, the research at the department of Environmental Protection focuses on the mechanisms underlying the key roles bacteria play in environment recovery and plant health, and their biotechnological exploitation. Research in biodegradation has been oriented towards the elimination of aromatic hydrocarbons, TNT and lindane. Biodegradation studies have been expanded to the removal of other contaminants such as PAHs and chloroaromatics by soil bacteria under aerobic and anaerobic conditions.

Expertise offered (related to the topic)

Silvia Marqués' group works on the microbial ecology of aromatic degradation. The research interests are dedicated to the molecular analysis of natural populations subjected to drastic changes in the environmental conditions, with emphasis on anaerobic processes. This includes the deep analysis of degradation pathways for recalcitrant molecules, especially under anoxic conditions. The

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**European R&D projects -
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Sector Group Agrofood

main goal is to understand how microbial communities respond in situ to contamination events in nature, and to exploit that knowledge to implement new low-cost remediation strategies. The group is expert in the analysis of bacterial communities at the molecular level, including metagenomics; but it also has a proved experience in the isolation of microbes of interest. The group has been extensively trained in these topics through its recent work on the Prestige oil spill.

- Metagenomic analysis.
- Strain isolation and characterization (aerobes and anaerobes)
- Hydrocarbon and contaminant degradation pathway characterization.
- Biodiversity analysis, functional diversity.

Previous FP experience

Presented a project at FP7-KBBE-2014 that was not financed.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0206)*

TOPIC OF INTEREST

TOPIC

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrates, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

■ ■ ■ 826



MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

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For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 8 - 2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources, based on the deployment of an Integrated Atlantic to collect observations and data recorded remotely and in-situ research implementing GEOSS.

We have collaborate in an international projet which scope was very similar to those that this topic address, we have participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collected information on marine protected areas and gather data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

We have also participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use

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with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality..

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project ´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

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Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-8-2014: Developing in-situ Atlantic Ocean Observatories for a better management and sustainable exploitation of maritime resources.



HCTECH (HERCULES CONTROL S.L.)

SME

*PROFILE from Spain
(14ES0207)*

TOPIC OF INTEREST

TOPIC

BG-8-2014: Developing in-situ Atlantic Ocean Observatories for a better management and sustainable exploitation of maritime resources.

ORGANIZATION EXPERTISE

ENTITY PROFILE

HCTECH is a technology-based company, started as a spin-off of CIS (Centro de Investigaciones Submarinas SL) in Santiago de Compostela (NW Spain). It was founded to improve the management and further develop the technical know-how gathered during 10 years of R & D in CIS. The company is dedicated to the designing and manufacturing of water quality monitoring systems, oceanographic devices and other marine technologies. These technological achievements are the result of collaborative projects with universities and technology centres, and they are aimed to the better protection of the seas and marine ecosystems. We are convinced that the best way to preserve water quality is through knowledge and through reliable environmental data, which is precisely what our technologies are looking for. We are designers, manufacturers and marketers of technological products capable of measuring in real-time the physical-chemical characteristics of water and the physical oceanographic conditions. The information gathered by our devices is then transmitted via GPRS, radio or satellite to a control center. The main competitive characteristics of our water quality monitoring system are the protection of the sensors against corrosion (antifouling) and the monitoring of the entire water column. The company is a SME whose staff has long expertise in R&D projects (telecommunication engineers, electronic and computing technicians, industrial engineers), and they are working in an individual 4 year project for the further evolution of the communication

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

systems of our monitoring devices and for the integration of a microbiological sensor (for monitoring microbial – E. coli and others - pollution in coastal and fresh water). Current collaborative R&D projects in which HCTECH participates are aimed to achieve a better environmental performance of harbour dredging (Ecodraga Project, www.ecodraga.es), in cooperation with another three companies and four R&D public centers. HCTECH participates integrating our monitoring systems in the dredging vessel. The aim of the project is to achieve a vessel design that minimizes the dispersion of pollutants in the water column during dredging and depositing the dredged material. Our company focuses on monitoring the turbidity real-time, and on integrating a broad hardware-software system on board. This system will offer real-time, on-line, geo-referenced information about the sea-bottom topography during the dredging process, based in interferometry. The objective is to increase the efficiency of the dredging process having the sediment volume calculations and the dredged area information available quickly and accurately. HCTECH also participates in a project for monitoring the constructive stability of harbour structures exposed to strong ocean waves impacts (which is in its initial stages). This project integrates ecosounding, LIDAR images and in-situ sensors for monitoring the stability of concrete blocks and the evolution of these structures through time.

Expertise offered (related to the topic)

HCTECH is integrated by telecommunication engineers, industrial engineers, and electronic and computing technicians, all of them with experience in R&D project execution and management. Up to 9 people are working now for the company. HCTECH started in 2011, but its staff comes from working in research projects in the University of Vigo, and from the R&D department of CIS (Centro de Investigaciones Submarinas) where they participated in more than a dozen R&D projects in the area of ocean monitoring, water quality monitoring and marine resources for the last 10 years (BAIP2020, Ecodraga, ProCIS, XeoTV, Hidroboya, integrating heavy metal sensors, and microbiological pollution sensors, RAIACo...)

Previous FP experience

HCTECH has no previous experience in international/european collaborative projects, but as stated before, has strong expertise in national and regional collaborative R&D projects.

Role in the project

Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources



ISOIN

SME

*PROFILE from Spain
(14ES0208)*

TOPIC OF INTEREST

TOPIC

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources

ORGANIZATION EXPERTISE

ENTITY PROFILE

ISOIN (www.isoin.es) is a Spanish SME working in Information Technology field, with deep experienced and a high qualified labour in software development, ambient intelligence, mobile communications and system integration. ISOIN has been developing, for years, high quality products for its customers, doing consultancy services, analysing the ICT market, and providing training to public and private companies. ISOIN workforce is composed by a multidisciplinary team ranging from different areas of engineering (mechanical, telecommunications, computer science, economics and agricultural sciences) being spread out Spain, Italy and Colombia. At the same time, research and development have been one of ISOIN main aims in order to continue improving its solutions and services to its customers. Hence ISOIN has been participating in National and European R&D projects for more than ten years, starting back in FP5 at European level and never stopping since then. ISOIN has several on-going projects in different European calls (FP7, AAL, EUROSTARS), and national ones, developing innovative solutions for adding value to our products and services. Some of these projects and its key-words are:

- FORSAT - A satellite image processing platform for high resolution forest assessment.
- DIET4Elders - A system that collects data regarding the older adult's self-feeding activities and generate a response based on a prescribed diet.

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- COIN - Collaboration and Interoperability services based on cloud computing and SaaS.
- T&TNet - Travel & Transport solutions through emotional-social NETWORKING aimed at elderly.

Expertise offered (related to the topic)

The applications of ICT for this topic are quite board:

- Software engineering and software development of platforms, interfaces, DSS, etc.
- For the management of data we can work on Cloud Computing, Data Mining, Image data storage platform, Ontologies, etc
- We can develop platforms for Smart Environments (Wireless Sensor Networks, Devices Profile for Web Services, Z-wave, OSGi, etc)

ICTs can provide and manage extensive information that can be stored and accessed online.

ISOIN counts in a previous experience thanks to FORSAT "A satellite image processing platform for high resolution forest assessment," is a project to raise the current technological capacity of aerial imagery combined with airborne laser scanning for forest cover mapping applications to a stand-alone, satellite-based monitoring capacity, where ISOIN is a partner.

Previous FP experience

ISOIN's count on a long track of experience in coordinating and participating in European projects in many different R&D programmes, but specifically in Framework Programme ISOIN has been involved in:

FP5-OLIMP3D: 3D technologies applied to industrial design and modelling of industrial products for SMEs

FP6-CADPIPE: Cad Production Pipeline

FP6-ECOLEAD: European Collaborative networked Organizations LEADership initiative

FP7-COIN: Enterprise Collaboration & Interoperability

FP7-MyUI: Mainstreaming Accessibility through Synergistic User Modelling and Adaptability

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources



MESUREX

SME

*PROFILE from Spain
(14ES0209)*

TOPIC OF INTEREST

TOPIC

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources

ORGANIZATION EXPERTISE

ENTITY PROFILE

Mesurex was founded in 1996 and its HQ is located at the Technological Park of Andalusia, in Malaga with offices in Barcelona and Madrid. Measurex is an Automation and Control Engineering company.

We provide solutions on:

- HW/SW Prototyping,
- Sensor networks,
- Wireless systems,
- Process monitoring and control,
- Embedded Systems,
- SW for industrial and infrastructure applications,
- Thermal vision applications and systems
- Non Contact Measurement applications and systems

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Our application engineers provide technical advice from the outset and offer support in the implementation phase, based on their experience with a large customer base and their training from leading worldwide manufacturers of hardware and software for systems instrumentation and control.

MESUREX also advise on the choice of optimal technology and HW/SW needs and specifications to use in your application, our engineering and development department offers complete solutions. We can adapt and integrate sensors, reading devices or data acquisition equipment, software and all kinds of control systems.

The technical team and R&D department are composed of engineers and qualified people from different technical areas such as mechanical design, electronic design, software programming, among others.

We have been developing many devices and systems for large companies (HP, Airbus Military, EADS CASA, etc.).

Expertise offered (related to the topic)

Our know how is based on the latest imaging technologies available on the market.

Long-wavelength infrared (LWIR) and Mid-wavelength infrared (MWIR) applications: thermography, cameras, electronic process, etc.

Previous FP experience

- NOSEY project; development and design of an electronic nose for the detection of wines corks in not well state (was coordinator of this EU funded project, worked along with other companies and universities).
- WATER MONITOR project; will provide a monitoring system of water sources, both quantitative and qualitative, on the basis of a new analysis technology set up (was SME of this EU funded project, worked along with other companies and universities).

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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E-mail: jaime.duran@juntadeandalucia.es

■ ■ ■ 839

 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0210)*

TOPIC OF INTEREST

TOPIC

BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0211)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in

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Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeals to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

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Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 9 - 2014: Acoustic and imaging technologies, based on researching technologies for a better data processing using acoustic and imaging technologies.

We have collaborate in an international projet which scope was very similar to those that this topic address, we have participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collected information on marine protected areas and gather data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

We have also participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality..

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Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project´s consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user´s forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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■ ■ ■ 846

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



HCTECH (HERCULES CONTROL S.L.)

SME

*PROFILE from Spain
(14ES0212)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

HCTECH is a technology-based company, started as a spin-off of CIS (Centro de Investigaciones Submarinas SL) in Santiago de Compostela (NW Spain). It was founded to improve the management and further develop the technical know-how gathered during 10 years of R & D in CIS. The company is dedicated to the designing and manufacturing of water quality monitoring systems, oceanographic devices and other marine technologies. These technological achievements are the result of collaborative projects with universities and technology centres, and they are aimed to the better protection of the seas and marine ecosystems. We are convinced that the best way to preserve water quality is through knowledge and through reliable environmental data, which is precisely what our technologies are looking for. We are designers, manufacturers and marketers of technological products capable of measuring in real-time the physical-chemical characteristics of water and the physical oceanographic conditions. The information gathered by our devices is then transmitted via GPRS, radio or satellite to a control center. The main competitive characteristics of our water quality monitoring system are the protection of the sensors against corrosion (antifouling) and the monitoring of the entire water column. The company is a SME whose staff has long expertise in R&D projects (telecommunication engineers, electronic and computing technicians, industrial engineers), and they are working in an individual 4 year project for the further evolution of the communication systems of our monitoring devices and for the integration of a microbiological sensor (for monitoring microbial – E. coli and others - pollution in coastal and fresh water). Current collaborative R&D projects in which HCTECH participates are aimed to achieve a better environmental performance of

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

harbour dredging (Ecodraga Project, www.ecodraga.es), in cooperation with another three companies and four R&D public centers. HCTECH participates integrating our monitoring systems in the dredging vessel. The aim of the project is to achieve a vessel design that minimizes the dispersion of pollutants in the water column during dredging and depositing the dredged material. Our company focuses on monitoring the turbidity real-time, and on integrating a broad hardware-software system on board. This system will offer real-time, on-line, geo-referenced information about the sea-bottom topography during the dredging process, based in interferometry. The objective is to increase the efficiency of the dredging process having the sediment volume calculations and the dredged area information available quickly and accurately. HCTECH also participates in a project for monitoring the constructive stability of harbour structures exposed to strong ocean waves impacts (which is in its initial stages). This project integrates ecosounding, LIDAR images and in-situ sensors for monitoring the stability of concrete blocks and the evolution of these structures through time.

Expertise offered (related to the topic)

HCTECH is integrated by telecommunication engineers, industrial engineers, and electronic and computing technicians, all of them with experience in R&D project execution and management. Up to 9 people are working now for the company. HCTECH started in 2011, but its staff comes from working in research projects in the University of Vigo, and from the R&D department of CIS (Centro de Investigaciones Submarinas) where they participated in more than a dozen R&D projects in the area of ocean monitoring, water quality monitoring and marine resources for the last 10 years (BAIP2020, Ecodraga, ProCIS, XeoTV, Hidroboya, integrating heavy metal sensors, and microbiological pollution sensors, RAIACo...)

Previous FP experience

HCTECH has no previous experience in international/european collaborative projects, but as stated before, has strong expertise in national and regional collaborative R&D projects.

Role in the project

Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



MESUREX

SME

*PROFILE from Spain
(14ES0213)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

Mesurex was founded in 1996 and its HQ is located at the Technological Park of Andalusia, in Malaga with offices in Barcelona and Madrid. Measurex is an Automation and Control Engineering company.

We provide solutions on:

- HW/SW Prototyping,
- Sensor networks,
- Wireless systems,
- Process monitoring and control,
- Embedded Systems,
- SW for industrial and infrastructure applications,
- Thermal vision applications and systems
- Non Contact Measurement applications and systems

Our application engineers provide technical advice from the outset and offer support in the implementation phase, based on their experience with a large customer base and their training from leading worldwide manufacturers of hardware and software for systems instrumentation and control.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

MESUREX also advise on the choice of optimal technology and HW/SW needs and specifications to use in your application, our engineering and development department offers complete solutions. We can adapt and integrate sensors, reading devices or data acquisition equipment, software and all kinds of control systems.

The technical team and R&D department are composed of engineers and qualified people from different technical areas such as mechanical design, electronic design, software programming, among others.

We have been developing many devices and systems for large companies (HP, Airbus Military, EADS CASA, etc.).

Expertise offered (related to the topic)

Our know how is based on the latest imaging technologies available on the market.

Long-wavelength infrared (LWIR) and Mid-wavelength infrared (MWIR) applications: thermography, cameras, electronic process, etc.

Previous FP experience

- NOSEY project; development and design of an electronic nose for the detection of wines corks in not well state (was coordinator of this EU funded project, worked along with other companies and universities).
- WATER MONITOR project; will provide a monitoring system of water sources, both quantitative and qualitative, on the basis of a new analysis technology set up (was SME of this EU funded project, worked along with other companies and universities).

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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■ ■ ■ 852

 enterprise europe network Business Support on Your Doorstep  AGROFOOD FOR FOOD & RURALITY	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0214)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the desi, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client´s requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Visión
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations
- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicules

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Technical training courses

- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:

- * Programming of PLCs and SCADAs.

- * FAT tests

- * SAT test, equipment control.

- * Electrical engineering

- * Fabrication of MCCs and Control Panels

- * Commissioning

- Processes automation and machine control:

- * Programming of PLCs and operator panels.

- * Axis control systems with servomotors.

- * Variable frequency drive.

- * Instrumentation.

- Productivity control and traceability systems:

- * SCADA programming

- * PLCs programming with Ethernet connection to PC with Visual Basic.

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



FAICO. FUNDACION ANDALUZA DE IMAGEN COLOR Y OPTICA

R&D Institution

*PROFILE from SPAIN
(14ES0215)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

FAICO is a private non-profit organization located in Seville and Cádiz (Andalusia, Spain), specialist in technological solutions through the application of industrial optics, especially in the areas of Cultural Heritage Conservation and Industrial Process Automation.

Machine vision applications:

- Automation of industrial manufacture, processing and packaging.
- Safety systems in industrial environments
- Quality control/failure detection
- Visual stock control and management systems
- Control of vehicles and industrial robots

Inspection of surfaces

Relevant

R&D

Projects:

A2 TRANSFER: PROMOTION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS IN THE AGROFOOD INDUSTRY IN THE REGIONS OF ANDALUSIA AND ALENTEJO

Programme: POCTEP; Duration: 24 M; Budget: 700.000 € (525.000 FEDER)

GEEWHEZ: MANAGEMENT AND LEISURE MIDDLEWARE FOR THEME PARKS AND ZOO

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Programme: FP7; Duration: 24 M; Budget: 1,635,080 €; Role: Partner

AUTOMATED SYSTEM FOR CLASSIFICATION OF ALEVINS IN FISH FARMS

Programme: Agentes del Conocimiento; Duration: 12 M; Budget: 213,088 €

AUTOMATED PROCESSING PLANT OF CRAYFISHES

Programme: (Private Funding)

RIPE&SWEET: Developing a hyperspectral system to check out the quality of fruits and vegetables

Expertise offered (related to the topic)

FAICO is officially qualified as Technology and Innovation Support Centre by the Spanish Ministry of Science and Innovation, being today a Technology Reference Centre in the industry. FAICO specializes in the fields of Machine Vision, 3D Design/Digitizing, Graphic Arts and Optics Engineering. Our mission is to provide the customers with the best technological solutions tailored to their needs. We apply our resources to develop, implement and optimize industrial processes and products in relevant fields of expertise. The main RTD activities and technological Solutions are as follows:

Machine Vision Applications

3D Design/Digitizing

Printing Technology

Previous FP experience

Geewhez Project (RTD Performer): Development of a surveillance system to control the behavior of visitors during their stay at the Park, the behavior of animals or the detection of escapes especially during the night in Animal Theme Parks. <http://www.geewhez.eu/>

A2Transfer Project: New technology transfer in agro-food industry in Andalusia-Alentejo <http://www.a2transfer.es/>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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■ ■ ■ 857

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-9-2014: Acoustic and imaging technologies



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0356)*

TOPIC OF INTEREST

TOPIC

BG-9-2014: Acoustic and imaging technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

CTAQUA, one IDEALFOOD member specialized in aquiculture, has participated as scientific and technical member in a national project for the Biomass estimation in off-shore aquaculture in which

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

acoustic technology has been applied in order to develop a suitable tool for the determination of the number and size of the fish contained in off-shore fish farms. The results of the project were promising but still much more research and innovation is needed to use the echosounder technology for farmed fish biomass determination.

Skills: Farm follow up of echosounder tests; farm deployments.

Facilities: CTAQUA associated members are fish farm producers and several of them have fish cages as production system.

PROPOSED ACTIVITIES

- Follow up a production cycle in a cage farm using echosound as tool to predict fish size and number evolution
- Evaluate the correlation between ground data and echosound data
- Determine the energy requirements and suitable devices to be used in open sea environment

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-10-2014: Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets



NANOIMMUNOTECH

SME

**PROFILE from SPAIN
(14ES0216)**

TOPIC OF INTEREST

TOPIC

BG-10-2014: Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0217)*

TOPIC OF INTEREST

TOPIC

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Graphical and interactive design, Geomarketing, corporate project design
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence, Geomatics, GIS and remote sensing
- Data flows integration and management, Data science
- Geographic Big Data handling and processing

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators. This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision

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making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality.

R&D Projects:

- MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with an heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has felt always at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

- Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

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URL: results integrated in REDIAM Portal,
<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 11 - 2014: Monitoring marine and maritime research, disseminating and valorising research outputs, based on developing a strategy for project's results dissemination and communication. We have experience contributing to European Project 's consortiums providing high-tech solutions:

We have collaborate in an international projet which scope was very similar to those that this topic address developing web visor and applications to show project's results, developing Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at the disseminatation of projects results and project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7).

Geomatics for European Projects: We collaborate in a project with the Università Ca' Foscari from Venice and the European Spatial Agency (ESA), we bring our experience in the management of working groups and dissemination of results of an outstanding group of scientists and researchers. Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

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It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)
- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0218)*

TOPIC OF INTEREST

TOPIC

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research



FAICO. FUNDACION ANDALUZA DE IMAGEN COLOR Y OPTICA

R&D Institution

*PROFILE from SPAIN
(14ES0219)*

TOPIC OF INTEREST

TOPIC

BG-11-2014: Monitoring, dissemination and uptake of marine and maritime research

ORGANIZATION EXPERTISE

ENTITY PROFILE

FAICO is a private non-profit organization located in Seville and Cádiz (Andalusia, Spain), specialist in technological solutions through the application of industrial optics, especially in the areas of Cultural Heritage Conservation and Industrial Process Automation.

Machine vision applications:

- Automation of industrial manufacture, processing and packaging.
- Safety systems in industrial environments
- Quality control/failure detection
- Visual stock control and management systems
- Control of vehicles and industrial robots

Inspection of surfaces

Relevan

R&D

Projects:

A2 TRANSFER: PROMOTION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS IN THE AGROFOOD INDUSTRY IN THE REGIONS OF ANDALUSIA AND ALENTEJO

Programme: POCTEP; Duration: 24 M; Budget: 700.000 € (525.000 FEDER)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

GEEWHEZ: MANAGEMENT AND LEISURE MIDDLEWARE FOR THEME PARKS AND ZOO

Programme: FP7; Duration: 24 M; Budget: 1,635,080 €; Role: Partner

AUTOMATED SYSTEM FOR CLASSIFICATION OF ALEVINS IN FISH FARMS

Programme: Agentes del Conocimiento; Duration: 12 M; Budget: 213,088 €

AUTOMATED PROCESSING PLANT OF CRAYFISHES

Programme: (Private Funding)

RIPE&SWEET: Developing a hyperspectral system to check out the quality of fruits and vegetables

Expertise offered (related to the topic)

FAICO is officially qualified as Technology and Innovation Support Centre by the Spanish Ministry of Science and Innovation, being today a Technology Reference Centre in the industry. FAICO specializes in the fields of Machine Vision, 3D Design/Digitizing, Graphic Arts and Optics Engineering. Our mission is to provide the customers with the best technological solutions tailored to their needs. We apply our resources to develop, implement and optimize industrial processes and products in relevant fields of expertise. The main RTD activities and technological Solutions are as follows:

Machine Vision Applications

3D Design/Digitizing

Printing Technology

Previous FP experience

Geewhez Project (RTD Performer): Development of a surveillance system to control the behavior of visitors during their stay at the Park, the behavior of animals or the detection of escapes especially during the night in Animal Theme Parks. <http://www.geewhez.eu/>

A2Transfer Project: New technology transfer in agro-food industry in Andalusia-Alentejo <http://www.a2transfer.es/>

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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Country: Spain

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E-mail: jaime.duran@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0220)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrates, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Graphical and interactive design, Geomarketing, corporate project design
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence, Geomatics, GIS and remote sensing
- Data flows integration and management, Data science
- Geographic Big Data handling and processing

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality.

R&D Projects:

- MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

- Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

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Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,
<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 12 - 2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth, based on giving SMEs the chance to collaborate in this call implementing their technologies related with the topics of this call. We are a SME wich has experience contributing to European Project's consortiums providing high-tech solutions and developing marketable solutions:

We develop web visor and applications to show project's results, developing Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at the dissemination of projects results and project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7).

Geomatics for European Projects: We collaborate in a project with the Università Ca' Foscari from Venice and the European Spatial Agency (ESA), we bring our experience in the management of working groups and dissemination of results of an outstanding group of scientists and researchers. Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what

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can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

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- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

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City: Sevilla

Country: Spain

Contact person: Jaime Durán

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E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



HCTECH (HERCULES CONTROL S.L.)

SME

*PROFILE from Spain
(14ES0221)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

Expertise offered (related to the topic)

Previous FP experience

Role in the project

Tech. Development; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0222)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested

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**European R&D projects -
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Sector Group Agrofood

already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



ROVIMATICA S.L.

SME

*PROFILE from Spain
(14ES0223)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

ROVIMATICA is a high tech engineering company specialised in providing industrial services in the fields of Robotics, Computer Vision and Automation.

The company has highly qualified staff who work actively in the design, implementation and commissioning (in terms of control, regulation, supervision, treatment of information) of automation solutions for factories. Rovimatica also designs and manufactures special machinery to meet the client's requirements. Furthermore, ROVIMATICA is able to face projects of important economic dimensions by developing their internal capabilities and cooperating with its partners.

ROVIMATICA provides knowledge and experience in the following fields:

- Automation and Control
- Robotics, Computer Vision
- Engineering and commissioning
- Industrial Processes
- Electrical Engineering and Installations

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- Fabrication of MCCs and Control Panels
- Maintenance works
- Special machinery and vehicles
- Technical training courses
- R&D

As a relevant R&D project, Rovimatica has developed a robotic vehicle to clean the parabolic cylindrical mirrors of the thermal solar plants. Today this vehicle is used and manufactured by Abengoa Solar for all its thermal solar plants. This vehicle works completely in automatic mode. The conductor of the industrial vehicle only has to drive like other lorries. The system does not need anyone to run it and adjusts itself to the mirrors.

Expertise offered (related to the topic)

Expertise offered:

- Industrial Plants:
  - * Programming of PLCs and SCADAs.
  - * FAT tests
  - * SAT test, equipment control.
  - * Electrical engineering
  - * Fabrication of MCCs and Control Panels
  - * Commissioning
- Processes automation and machine control:
  - * Programming of PLCs and operator panels.
  - * Axis control systems with servomotors.
  - * Variable frequency drive.
  - * Instrumentation.
- Productivity control and traceability systems:
  - * SCADA programming
  - * PLCs programming with Ethernet connection to PC with Visual Basic.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Computer vision:

- * Quality control systems

- * Robot control systems with computer vision

- Robotics:

- * Design and implementation of robotic systems

- * Repair and maintenance works of robots. Authorised company to repair Mitsubishi robots.

- Preventive and corrective maintenance works

- * Through qualified professionals with experience in programming and electromechanical installations.

- Design and developing of special machinery and systems for industrial vehicles

- Technical training courses

- R&D. Our company is actively involved in R & D both in collaboration with other companies and individually.

Previous FP experience

No previous experience in European Framework Programmes.

Role in the project

Research; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

Telephone: 0034 955 007 497

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

E-mail: jaime.duran@juntadeandalucia.es

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Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



SIGMA BIOTECH, S.L.

SME

*PROFILE from SPAIN
(14ES0224)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

Sigma Biotech offers a wide range of services focused on developing innovative agri-food projects, thanks to a multidisciplinary team that meets the needs of R & D firms adapted to the food sector.

Experts on solving specific needs, medium-term undertaking projects and engage in strategic plans that lead to the development of a variety of food products that are launched in the market by implementing innovative new food technologies. DESIGN AND DEVELOPMENT OF NEW PRODUCTS.

CHARACTERIZATION OF FOOD.
ADVICE AND MANAGEMENT IN THE PREPARATION OF REPORTS AND PRESENTATION OF GRANTS AND SUBSIDIES FOR R & D BOTH AT REGIONAL, NATIONAL AND EUROPEAN. FUNDING I + D + I

Sigma Biotech collaborates with public and private agencies , offering full management for companies to successfully access to existing financial aid for the development of R + D + i , taking place from document management to technical development so integrity.

Our successes behind us. Some of the projects that your team works are:

-New range of spirits alcoholic dairy adjustable solidified .

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- Development new range of soft drinks based on modifications of thixotropy , surface tension and the use of colloidal suspensions .
- Systems emulsifiers based on fatty no additive for stabilizing batters .
- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .
- New range of products consist of multilayer restructured quince and dairy .
- New range of soft drinks based on natural products.
- New range of oilseeds with different wall mounts .
- Textured products from natural raw materials.
- Enzyme Systems fermented bread with no thermal activation of yeast.
- Chromatic flavored alcoholic beverages , based on the ionization of anthocyanins by acid-base shift .
- Ice high melting point surfactant systems based on the reduction of interfacial surface tension.

Expertise offered (related to the topic)

TECHNOLOGICAL SOLUTIONS

Sigma Biotech is specialized in optimizing production processes and manage technology solutions products, both for improving the same as for the correction of any physical alterations chemical, microbiological, organoleptic , rheological ...

The methodology conducted by Sigma Biotech for the development of a project is based on a clear philosophy: to accompany the client at all stages of the same , from idea generation until memory document management , technical development laboratory scale and industrial location :

- Visit the customer premises, thereby acquiring much information as possible and thus facilitating the development of the project.
- Signing a confidentiality agreement between the parties, ensuring the utmost privacy possible.
- Writing a previous projec , based on the research that is to be carried out , for review by the customer and making the appropriate adjustments .
- Presentation of a final draft . Document management into CDTI presentation or in the appropriate body .
- Confirming the proposal and the budget and signing the contract.
- Technical development laboratory and pilot scale and industrial location .

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-Memory Presentation results and relevant technical justification to the appropriate body .

-Sigma success Biotech acceptance works if technical report presenting a funding agency, if it is rejected , the customer does not acquire any financial commitment or technical .

Previous FP experience

TECHNOLOGICAL SOLUTIONS

Sigma Biotech, despite being a newly established company , is working in R & D with major companies in the sector in Spain . Currently , is involved in many interesting projects that are giving more interesting conclusions for the future of the industry agroalimentaria . Some of the major projects in which your team works are:

- New range of spirits alcoholic dairy adjustable solidified .

-Developing new range of soft drinks based on modifications of thixotropy , surface tension and the use of colloidal suspensions .

- Development of a range of ion balance stabilizers for the standardization of the goat cheese rind .

- New range of soft drinks based on natural products.

Enzyme Systems fermented bread with no thermal activation of yeast.

Chromatic - alcoholic flavored drinks , based on the ionization of anthocyanins by acid-base shift .

Ice - melting high surfactant systems based on the reduction of interfacial surface tension

Role in the project

Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Cristina Cabeza

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FOR FOOD & RURALITY	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0225)*

TOPIC OF INTEREST

TOPIC

BG-12-2014/2015: Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Project management, dissemination and demonstration services.

Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-13-2014: Ocean literacy – Engaging with society – Social Innovation



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0226)*

TOPIC OF INTEREST

TOPIC

BG-13-2014: Ocean literacy – Engaging with society – Social Innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Graphical and interactive design, Geomarketing, corporate project design
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence, Geomatics, GIS and remote sensing
- Data flows integration and management, Data science
- Geographic Big Data handling and processing

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators. This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality.

R&D Projects:

- MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with an heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has felt always at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

- Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

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URL: results integrated in REDIAM Portal,
<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 13 - 2014 Ocean literacy – Engaging with society – Social Innovation, based on developing a strategy for project's results dissemination and communication activities to explain citizens and to the society about ocean challenges. We have experience contributing to European Project's consortiums providing high-tech solutions:

We have collaborate in an international projet which scope was very similar to those that this topic address developing web visor and applications to show project's results, developing Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at the disseminatation of projects results and project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7).

Geomatics for European Projects: We collaborate in a project with the Università Ca' Foscari from Venice and the European Spatial Agency (ESA), we bring our experience in the management of working groups and dissemination of results of an outstanding group of scientists and researchers. Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

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It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)
- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

Telephone: 0034 955 007 497

E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-14-2014: Supporting flagship international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0227)*

TOPIC OF INTEREST

TOPIC

BG-14-2014: Supporting flagship international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Graphical and interactive design, Geomarketing, corporate project design
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence, Geomatics, GIS and remote sensing
- Data flows integration and management, Data science
- Geographic Big Data handling and processing

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators. This new

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality.

R&D Projects:

- MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

- Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

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Client: Physical Geography & Coastal Research Group, University of Seville

URL: results integrated in REDIAM Portal,
<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 14 - 2014: Supporting flagship international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance, based on developing a strategy for cooperation between organizations, project's results dissemination and communication and establish a sustainable knowledge sharing platform. We have experience contributing to European Project's consortiums providing high-tech solutions:

We have collaborate in an international projet which scope was very similar to those that this topic address developing web visor and applications to show project's results, developing Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at the disseminatation of projects results and project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming,branding, web site, instructions manuals, and casing design. PEGASO Project (FP7).

Geomatics for European Projects: We collaborate in a project with the Università Ca' Foscari from Venice and the European Spatial Agency (ESA), we bring our experience in the management of working groups and dissemination of results of an outstanding group of scientists and researchers. Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what

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can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

Telephone: 0034 955 007 497

E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-14-2014: Supporting international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance



GRONCONSULT

Other organization(consulting,association,...)

*PROFILE from Denmark
(14DK0228)*

TOPIC OF INTEREST

TOPIC

BG-14-2014: Supporting international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance

ORGANIZATION EXPERTISE

ENTITY PROFILE

Gronconsult is a consultancy lead by Arne Grønkjær Hansen. Mr. Hansen has a profound experience within agricultural development and management including 9 years experience in project management and extension service.

He is advisor for the Danish Ministry of Environment on emission abatement in agriculture. Teacher on agricultural school for 4,5 year on farm management, housing design and logistics. Additionally, he has extensive hands-on working experience advisory service in farm management including planning and design of animal housing and feeding.

Experience with planning and conduction of tests and verifications of environment technology i.e. for biogas production.

He has project management in skills developed through education and long experience in Danish Agricultural Advisory Service and approved technological institutes (Agrotech and DTI). Is and has been project manager in innovation projects concerning animal housing, animal welfare, environment protection, emission abatement, slurry treatment. Was representing Denmark in EU-Umbrella "Euroagrifoodchain" in the period 2008-2012.

Expertise offered (related to the topic)

Project management, dissemination and demonstration services.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

Project leader of BIOMAN (FP7 R4SMEs). Fundraising through Danish funds and EU funding (Eurostars programme/FP7 R4SMEs) - Areas: biomass treatment, biogas production, agriculture, environment protection.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

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City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

BG-15-2014: European polar research cooperation



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0229)*

TOPIC OF INTEREST

TOPIC

BG-15-2014: European polar research cooperation

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with an heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has felt always at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

Expertise offered (related to the topic)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic BG 15 - 2014: European polar research cooperation, based on the research of climate change in the polar region as it address the use of existing monitoring technologies based on open data and open source technologies.

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

We have collaborate in an international projet which scope was very similar to those that this topic address, we have participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collected information on marine protected areas and gather data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

We have also participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new

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information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project 's consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3 Edificio Iris I

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Jaime Durán

Telephone: 0034 955 007 497

E-mail: jaime.duran@juntadeandalucia.es

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

 *UNIVERSITY OF TURIN, FOOD-EES RESEARCH GROUP,
R&D Institution
PROFILE from Italy
(14IT0230)*

TOPIC OF INTEREST

TOPIC

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food_EES represents an interdisciplinary group of research, made of sociologists, geographers, agronomists, rural and environmental economists of the University of Turin, interested in food, as a unique lens through which one can address key social science questions on resource shortfalls, environmental pressures and social development. We think that doing research on food provides important opportunities to solve questions about the prospects for a more secure, just and sustainable future, understanding the shifting boundaries between civil society, the market and the State.

Relevant R&D projects:

- 2012-2015 AFNIA, funded by Strategic Research Grant – Compagnia S.Paolo Foundation. Alternative Food Networks: An Interdisciplinary Assessment Theoretical from four disciplinary standpoints: economic, social, environmental and territorial.
- 2012-2013 ECOAGRO, funded by Piedmont Region, Innovation Pole. New approach for the environmental management and certification for agri-food industry.

Expertise offered (related to the topic)

Tools for evaluate and measuring environmental public goods, positive and negative externalities according to the approach of human ecology.

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Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

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Country: Italy

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0231)*

TOPIC OF INTEREST

TOPIC

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

ORGANIZATION EXPERTISE

ENTITY PROFILE

GRUPO TRAGSA is a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

TRAGSATEC is a company member of GRUPO TRAGSA. It is an engineering company mainly focused on providing the Spanish Public administration with technology services in all environmental and rural-related sectors (agriculture, fishery, rural-development, environment, etc.). TRAGSATEC is a highly specialised company that relies on its own technology to execute projects and provide technical assistance related to environmental management, improvement of rural areas, agrarian infrastructures ...

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North

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Sector Group Agrofood

Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

TRAGSATEC counts on a Rural Development Unit which includes a group specialized in spatial economic valuation. This group works for the Spanish Ministry of the Environment, and has a relevant experience in the valuation of ecosystem services and environmental damage, as well as in the application of European Directives concerning environmental responsibility and damage assessment to the Spanish context.

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0357)*

TOPIC OF INTEREST

TOPIC

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

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Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied o real life business.

We count on several semi-industrial pilot plants for he usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We performs the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS7MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation ad packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has a clear main, to make companies, especially SMEs, more competitive through innovation and R&D activities.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

IDEALFOOD has prioritized scientific activities of technological knowledge generation and knowledge application development of R&D, for the benefit of the whole agrifood sector, and, particularly, for the 44 members who make up the association, belonging to different areas of the sector.

Since its inception, IDEALFOOD has led the implementation of more than 100 research projects. The center has organized more than 90 events (meetings, workshops, conferences, courses, etc.), has met the demand of 500 clients and has developed 60 technology transfer actions. It has also become part of several European consortiums for research projects.

AEVIA, Association of companies linked to the Andalusian food industry.

Spanish Olive Technology Platform (ALENTA)

Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

GLOBAL NETWORKS AND CLUSTERS

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice



CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING AND OLIVE OIL

Technological Centre

*PROFILE from SPAIN
(14ES0379)*

TOPIC OF INTEREST

TOPIC

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

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**European R&D projects -
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Sector Group Agrofood

b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the olive oil and table olive sector. Specific expertise in the topic is based in the following background and technological tools:

a. Market studies

b. Estudios for public administrations

c. Communication, dissemination and transfer of research results

d. Mangament and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement nº: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement nº: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

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FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain. Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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Country: Spain

Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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 Business Support on Your Doorstep  AGROFOOD	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice



UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

PROFILE from Spain
(14ES0302)

TOPIC OF INTEREST

TOPIC

ISIB-1-2014: Provision of public goods by EU agriculture and forestry: Putting the concept into practice

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Santiago de Compostela (USC), founded in 1495, is one of the university institutions with a great tradition in Europe. The large number and excellence of the courses taught and the quality of the research undertaken particularly in the fields of life sciences and agrofood place the USC among the most prestigious universities in Spain and Europe. As a matter of fact a USC's main project called CAMPUS VIDA (Life Science Campus) has been qualified in 2009 as an International Campus of Excellence by the Spanish Ministries of Education and Science and Innovation.

Expertise offered (related to the topic)

Modelling of forest growth and productivity

Forest management

Silviculture

Forest biomass, energy plantations and carbon fixation

Soil and forest nutrition

Previous FP experience

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

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E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



FOOD TECHNOLOGY DEPARTMENT. UNIVERSITY OF SANTIAGO DE COMPOSTELA

R&D Institution

*PROFILE from SPAIN
(14ES0232)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Santiago de Compostela (USC), founded in 1495, is one of the university institutions with a great tradition in Europe. The large number and excellence of the courses taught and the quality of the research undertaken particularly in the fields of life sciences and agrofood place the USC among the most prestigious universities in Spain and Europe. As a matter of fact a USC's main project called CAMPUS VIDA (Life Science Campus) has been qualified in 2009 as an International Campus of Excellence by the Spanish Ministries of Education and Science and Innovation.

Expertise offered (related to the topic)

The USC has numerous research groups in food, from different points of view. Among the most important lines of research are:

- resources (identification, sustainable use, environmental impact assessment, ...)
- characterization of food (sensory and physico-chemical)
- processing technologies
- conservation technologies

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

food-safety

-waste (integrated management, development for use as high-value compounds, feed ...)

-economics (feasibility studies of production and / or marketing, improved management of production and / or marketing, market simulator to estimate production, studies on positioning of brands and launching new products, ...)

Previous FP experience

The USC has led or participated in many European projects.

Role in the project

Research; Tech. Development; Management;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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  Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

 **UNIVERSITY OF GASTRONOMIC SCIENCES/ SYSTEMIC FOOD DESIGN RESEARCH UNIT**

R&D Institution

*PROFILE from Italy
(14IT0233)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Gastronomic Sciences, founded in 2004 by the international non-profit Slow Food in cooperation with the Italian regions of Piedmont and Emilia-Romagna, is a ministerially recognized, private non-profit institution.

Its goal is to create an international research and education center for those working on renewing farming methods, protecting biodiversity, and building an organic relationship between gastronomy and agricultural science.

Relevant projects:

2010-2012 Poliedro , Pollenzo Index Environmental and Economics Design funded by Piedmont Region

2011-2013 Pollenzo's Index funded by Turin Commercial Chambre
2010-2012 People Interaction with Enhanced Multimodal Objects for a new territorial experience- Want-eat, funded by Piedmont Region

2012-2013 Systemic Food Design funded by Comieco

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Systemic design according the principle of circular economy to optimise food production, processing, commercialisation systems

Eco- Packaging (primary, secondary and tertiary)

Interaction with smart objects (App, augmented reality, QR code, App, website, Innovative Social Network)

Design of Eco-events

Previous FP experience

No previous experience

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

 **UNIVERSITY OF TURIN-DISAFI- TEAM POST-HARVEST TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT**

R&D Institution

*PROFILE from Italy
(14IT0234)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

The aim of the research team on "Post-harvest technology and supply chain management" is to improve the sustainability of the fruit and vegetable supply chain by optimizing their quality and shelf life through the use of post harvest technology. The driver of all research's activity is the adoption of innovation in the management of fruit production and process that can be able to fulfill sustainability criteria. Smart integration of multidisciplinary aspect such as physiological, safety, and instrumental and sensory quality measurement concepts is essential to develop the most effective handling procedures and innovative technologies for maintaining quality and shelf stability of fruit products. Most of research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of research findings to the benefit of industry and society.

Main topics

1. Physiology and post harvest quality
2. Storage management and packaging systems
3. Fresh-cut physiology and storage
4. Edible coating

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5. Sustainability in the supply chain

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

Expertise offered (related to the topic)

1-The team perform research on Physiology and post harvest quality: By studying the metabolism of the products has been possible to model the physiological behaviour of species and new varieties introduced on the market throughout the supply chain according to the different cropping and storage systems adopted. Non-destructive techniques (NIR spectroscopy and gas chromatography) are pulled alongside the traditional monitoring techniques to search and identify specific quality indicators throughout all phases of the value chain, with particular attention to the evolution of nutraceutical components and the "wishes" of the final consumer.

2 - Storage management and packaging systems: Emerging critical aspects of postharvest along the supply chain are managed for each product fruit by controlling and integrating parameters of temperature and humidity on the composition of the atmospheres of the different storage environments. The study of active and passive MAP systems has allowed us to extend the shelf life and marketability of products with high perishability. . About our research on packaging we have studied innovative and sustainable packaging materials (films, trays, nets, baskets) that can add value to the post harvest products and processes.

3 - Fresh-cut physiology and storage: minimally processed fruit have shorter shelf life and high perishability than the whole counterparts because they are more sensitive to enzymatic browning and tissue softening; so it is necessary to combine the action of different substances with refrigeration, packaging and atmosphere (active and passive MAP) in order to preserve the visual quality of fresh-cut fruit. The prevention of enzymatic browning and loss of firmness is achieved using dipping treatments containing antibrowning agents such as antioxidants or acidulants, associated with different calcium treatments and different packaging (active and passive MAP).

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

4 - Edible coating: coatings on fruits (minimally processed or whole) create a semipermeable barrier to external elements that can reduce moisture loss, solutes migration, respiration and oxidative reaction rates. Our studies regard different types of coating (vegetable or animal) and applications. The coatings can be associated with active substances (antimicrobials, antioxidants, maturation inhibitors) to improve and extend the shelf life of fruits.

5 - Sustainability in the post-harvest supply chain: LCA methodology, sustainability indicators multi-criteria analysis are applied to the most important sectors of the fruit production

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0235)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

It is necessary to talk about our agricultural advisory work, particularly in the area of the social innovation, and in the coordination of the productivity with sustainability. In our experience as a link between the production sector and the research sector, we have collaborated to disseminate the latest news and innovations and we can detect the disconnection between the two sectors.

As good expert of local producers, we believe that it is possible to improve the research side (making it more practical, adapted to the real needs of producers and with a financial support depending on the results).

Previous FP experience

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

 **ORTOFRUIT ITALIA (PRODUCERS' ORGANISATION P.O)**

Other organization(consulting,association,...)

*PROFILE from Italy
(14IT0236)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ortofruit is a producers' association which was founded in 2003 by farmers and business people both inspired by a willingness to innovate and work jointly in the Piedmontese fruit and vegetable market. An entrepreneurial challenge for 500 farmers coordinated by 15 member cooperatives reaching a total volume of sale of 20.000 tons. Thanks to accurate production, deep knowledge of final markets, flexibility and organization, nowadays Ortofruit Italia supplies the most prestigious chains in the Italian and foreign large distributors' markets, both with Private Labels and with the label Ortofruit Italia.

Relevant R&D projects:

2010-2012 Fruitgest project: quality optimization on fruit and vegetables products through the use of new technologies for the post-harvest step funded by Piedmont Region through EU structural funds, participation as partner's project.

2010-2013 Vivopack: valorisation of Made in Italy agro-food products within the call new technologies for the made in Italy funded by the Italian Ministry of Economic Development, participation as partners' project.

2011-2014 F. & F. Biopack: research and development project on eco-sustainable packaging funded by Piedmont Region through EU structural funds, participation as partner's project

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Expertise offered (related to the topic)

Expertise on dissemination, transfer and implementation among cooperatives' member of technology on the reduction of the negative environmental impact of crop production through less soil disturbance, better exploitation of soil biodiversity and functions and more rational use of external inputs, water and natural resource base. Collaborations with academia for the realisation of appropriated technologies for smallholders farms.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Training; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0237)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

TRAGSA is the matrix company of GRUPO TRAGSA, a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

GRUPO TRAGSA is a benchmark as an integrated service provider for Administrations in project implementation. Our mission is to provide the Spanish Public Bodies with solutions to their needs, supported by innovative technologies and quality standards. The company has vast potential and experience for transferring knowledge and technical innovation to managers and final users, as well as to the international arena.

R&D projects developed by GRUPO TRAGSA are mainly focused on innovation and demonstration activities with the aim of transferring knowledge and innovative solutions from the research field to the final users. In this process, the company plays a key role by establishing strong links and building the necessary bridges between researchers and managers.

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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■ ■ ■ 938

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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■ ■ ■ 939

 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM & FOREST	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0358)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has a clear main, to make companies, especially SMEs, more competitive through innovation and R&D activities.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

IDEALFOOD has prioritized scientific activities of technological knowledge generation and knowledge application development of R&D, for the benefit of the whole agrifood sector, and, particularly, for the 44 members who make up the association, belonging to different areas of the sector.

Since its inception, IDEALFOOD has led the implementation of more than 100 research projects. The center has organized more than 90 events (meetings, workshops, conferences, courses, etc.), has met the demand of 500 clients and has developed 60 technology transfer actions. It has also become part of several European consortiums for research projects.

AEVIA, Association of companies linked to the Andalusian food industry.

Spanish Olive Technology Platform (ALENTA)

Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

GLOBAL NETWORKS AND CLUSTERS

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



RESEARCH GROUP "BIOLOGY AND PRODUCTION OF DEER" - CASTILLA LA MANCHA UNIVERSITY

R&D Institution

*PROFILE from Spain
(14ES387)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

Biology and Production of deer research team is part of Spain's national game institute (IREC) at the university of Castilla-La Mancha. We manage the first experimental deer farm in Europe, which allows us to do not only research, but also training and demonstration of deer farming and management practices. Our research ranges from antler analysis as a tool to detect mineral deficiencies, or management problems, to lactation, nutrition, calf growth, deer breeding, and all areas related with deer management. The deer breeding in farms is a sector that currently involves 10,000 farmers in Europe and 300,000 deer, however only in Spain there are 3,000 game estates (of 1,000 has or more) and 650,000 deer. We are in contact with the top deer breeders in Europe and also with science based companies both in the EU and New Zealand, the country that most innovation in the area of deer farming develops and applies. Thus we are in a superb position to do dissemination of available scientific technology in aid of deer farmers or managers. As an example, we organized the first congress for deer professionals to transfer available technology into the market (www.emad.es). RESEARCH PROJECTS: We have more than 16 national and regional research projects including the last one (AGL2012-38898) obtained in the most competitive call during the hardest part of the economic recession. In addition to the projects obtained as research team, Venadogen has obtained 3 projects for contracting technologists (postdocs) for developing as a marketable service the diagnostic tool for consulting derived from our research.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Expertise offered (related to the topic)

Our research group has more than 20 years of experience in research in the deer sector, in applying basic research to convert it into applied research first and innovation afterwards. We have also a long developed expertise in transferring technology to the farming deer sector. We have a close relationship with the deer farming and breeding economic sector in all Europe (one of our members is vicepresident of the European Federation of Deer Farmers, www.fedfa.org; and president of the international deer and wild ungulate breeders association, IDUBA). We can provide training and demonstrations in the experimental deer farm of the University of Castilla-La Mancha, as well as training for farmers to learn to use better practices or new technological methods for nutrition, breeding manipulation, etc. We are in close contact with scientific literature to extract useful information for the sector, and have contacts with companies that develop technology in the nutrition sector to apply to deer farming and game management.

Previous FP experience

We have filed a proposal for Advanced Research Grant in 2012, and we were part of a KBBE proposal both as a research team and as a spin-off company Venadogen, in a call in 2013. None of these was selected.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ACTIS

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■ ■ ■ 945

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



INTERNATIONAL DEER AND WILD UNGULATE BREEDERS ASSOCIATION (IDUBA)

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES388)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDUBA is a newly created association that has not only deer breeders (deer farmers and breeders in game estates), but also any company that makes business around deer breeding, deer hunting, nutrition, other wild ungulates, their transport, farming fitting and machinery, hunting companies, etc. A few weeks after its registration in Spain (Nac. Reg. Num. 604359), IDUBA has members in 4 continents ranging from Russia to China, USA, New Zealand, in addition to a number of members in the EU. The aim is to transfer available scientific knowledge and innovation into SMEs using all electronic forms (forthcoming web platform under development, newsletters, news in the media, etc.), and boosting by doing this economic cooperation between all sorts of companies that benefit from a common platform that works to break the language barriers between companies (its Director of International Relationships is fluent in Russian, Spanish, English, French and Italian). We are in contact with the top deer breeders in Europe and also with science based companies both in the EU and New Zealand, the country that most innovation in the area of deer farming develops and applies. In addition to EU deer farmers, the most promising market is Russia, where the sector may have in the coming years a turnover of more than 6,000 M€, so that our platform aims to establish links between other members and customers in this country.

Expertise offered (related to the topic)

■ ■ ■ 946

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We offer expertise in transferring technology to the deer farming sector, which is composed by micro-SMEs. We are in contact with many of the deer farmer associations, technological companies, related news media, and scientists in this sector. We already organized a meeting for technological transfer in this sector, the first meeting for deer professionals: the European Meeting on Antlers and Deer (EMAD: www.emad.es). We have links with all sorts of deer farmers (from those applying a great proportion of available technology for antler development or venison production, to those with the most traditional techniques at the smallest scale) in all countries of the European Union, Russia, USA, New Zealand, México, Argentina, and other countries. We keep good relationships and a great expertise in dissemination in most deer hunting magazines in EU, Russia or Japan (as well as with news providers in Russia and other countries). We know the most important scientific groups and technological companies working in the European Union and in New Zealand, as well as international groups working in cervids worldwide.

Previous FP experience

The president, Dr. Tomás Landete-Castillejos, participated in a KBBE proposal in 2013, plus a Advanced Research Grant proposal in 2012, but none was finally selected.

Role in the project

Management; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ACTIS

Organisation name: UNIVERSIDAD DE CASTILLA LA MANCHA

Address: EDIF. ITQUIMA AV. CAMILO JOSE CELA S/N

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange



VENADOGEN

SME

*PROFILE from Spain
(14ES389)*

TOPIC OF INTEREST

TOPIC

ISIB-2-2014/2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

ORGANIZATION EXPERTISE

ENTITY PROFILE

Venadogen is a science-based company (spin-off) from the university of Castilla-La Mancha. It works in the deer breeding, game management, deer farming, and wildlife management area. As it is formed by a scientific team, it is involved in research and its application as innovation in consulting. The deer breeding in farms is a sector that currently involves 10,000 farmers in Europe and 300,000 deer, however only in Spain there are 3,000 game estates (of 1,000 has or more) and 650,000 deer. Our company offers a range of services to both farmers and game managers: 1) Analysis of antler chemical composition and mechanical properties to detect mineral deficiencies and management problems; 2) Consulting on deer farming or game management from these analysis and general assessment of data gathered from the farm/game estate or derived from inspection of practices; 3) Training of best management practices, ranging from handling, to feeding, health management, etc. 4) Dissemination of available scientific technology in aid of deer farmers or managers. RESEARCH PROJECTS: We have more than 16 national and regional research projects including the last one (AGL2012-38898) obtained in the most competitive call during the hardest part of the economic recession. In addition to the projects obtained as research team, Venadogen has obtained 3 projects for contracting technologists (postdocs) for developing as a marketable service the diagnostic tool for consulting derived from our research.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Venadogen offers expertise in transferring technology to the farming deer sector. It has expertise in converting research into innovation (the topic of the current call), and has a close relationship with the deer farming and breeding economic sector. We can provide demonstrations in the experimental deer farm of our research group in the University of Castilla-La Mancha, as well as training for farmers to learn to use better practices or new technological methods for nutrition, breeding manipulation, etc.

Previous FP experience

We participated in a KBBE proposal in 2013, plus a Advanced Research Grant proposal in 2012, but none was finally selected.

Role in the project

Training; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ACTIS

Organisation name: UNIVERSIDAD DE CASTILLA LA MANCHA

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■ ■ ■ 949

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0238)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The ILT.NRW - Institute for Food Technology.NRW carries out projects and holds competences in innovative 2Gbioethanol pretreatment technologies as well as different lignocellulose biorefinery concepts containing the coupling of components as hydrothermal carbonization (HTC) and biogas.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

 *UNIVERSITY OF TURIN, FOOD-EES RESEARCH GROUP,
R&D Institution
PROFILE from Italy
(14IT0239)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food_EES represents an interdisciplinary group of research, made of sociologists, geographers, agronomists, rural and environmental economists of the University of Turin, interested in food, as a unique lens through which one can address key social science questions on resource shortfalls, environmental pressures and social development. We think that doing research on food provides important opportunities to solve questions about the prospects for a more secure, just and sustainable future, understanding the shifting boundaries between civil society, the market and the State.

Relevant R&D projects:

- 2012-2015 AFNIA, funded by Strategic Research Grant – Compagnia S.Paolo Foundation. Alternative Food Networks: An Interdisciplinary Assessment Theoretical from four disciplinary standpoints: economic, social, environmental and territorial.
- 2012-2013 ECOAGRO, funded by Piedmont Region, Innovation Pole. New approach for the environmental management and certification for agri-food industry.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network analysis of social innovations in agro-food chain and in specific marginalised areas such as multi-actors networks, producers-consumer association, territorial alliance). Analysis of the effect of innovative governance mechanisms.

Previous FP experience

No previous experience in FP, at the moment only R&D projects at national level.

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0240)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

The 80% of our farmers live in disfavored and mountain areas. In these areas, with a low population density, with very aged population (mean age 54 years) and a high degree of depopulation, our advisory work is especially important.

These farms are characterized by the low production capacity, low vocational training, advanced age of the owners, over-reliance on public subsidies, small lands and a poor ecological and environmental conscience.

Previous FP experience

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: CIS Galicia

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Country: Spain

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Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0241)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

GRUPO TRAGSA is a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

TRAGSATEC is a company member of GRUPO TRAGSA. It is an engineering company mainly focused on providing the Spanish Public administration with technology services in all environmental and rural-related sectors (agriculture, fishery, rural-development, environment, etc.). TRAGSATEC is a highly specialised company that relies on its own technology to execute projects and provide technical assistance related to environmental management, improvement of rural areas, agrarian infrastructures ...

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North

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**European R&D projects -
Agrofood Partnership Profiles
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Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

SSRI (Social Spaces for Research and Innovation) has become an important instrument for the emancipation and empowerment of the society, promoting new models of governance and relationships between society, national institutions and companies, democratizing the process for innovation.

Within an innovation EU funded project ("Social Validation of INSPIRE Annex III Data Structures in EU Habitats", HABITATS: CIP- ICT-PSP-2009-3-250455; www.inspiredhabitats.eu), GRUPO TRAGSA has adopted SSRI concept as local innovation ecosystems, working with stakeholders and acting as mechanisms for socio-technical innovation and change although we have focused on prototyping and social validation trials mainly. The pilots that have been launched and operated by HABITATS demonstrating that still work must be done to realize the promise of social empowerment & effective INSPIRE adoption everywhere. A main issue is to mobilize the local constituencies including the citizens, and create engagement of all. SSRI stresses the dimension of social innovation and local communities' engagement.

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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Country: Spain

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation



IDEALFOOD, AGROMEDITERRANEAM ALLIANCE

Technological Centre

*PROFILE from SPAIN
(14ES0359)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

IDEALFOOD is a new framework where by the Andalusian Agrifood Technology Centers can pool their resources and capabilities, thus creating smart specialization and forming the most important technological partnership serving the Agrifood companies.

Our five Technological Centers are specialized in the most relevant areas of the Andalusian Agrifood sector:

- Fruit
- Horticulture
- Livestock
- Olive Oil
- Aquaculture

IDEALFOOD is made up of over 70 professionals specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

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We count on several semi-industrial pilot plants for the usage of industry for new products development and determination and improvement of processing parameters.

IDEALFOOD has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

Food Production: Efficient soil and soilless based crop management, new strategies for reducing of production costs and environmental impacts, pest and diseases control, new technologies for improving the productivity and resilience of agriculture, new disinfection technologies (ozone, oxygen ionized, UV).

Food Safety and quality: Food additives, residues (pesticides, veterinary drugs, hormones, etc.), and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, , Advances analytical techniques in food studies (MS/MS, ICP-MS, etc.)

Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.

Food preservation and packaging: Modified atmosphere packaging, controlled atmosphere storage, control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.

Nutritional and Functional Food: Biochemical analysis, food composition, formulation studies, properties of functional foods and evaluation in terms of healthy nutrition, bioactive compounds and phytochemicals, sensorial analysis.

Food Microbiology and Biotechnology: assurance of microbial safety of foods, food microorganism characterization and microbial analyses, molecular biology applications in foods, fermented food products.

IDEALFOOD prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Expertise offered (related to the topic)

IDEALFOOD has a clear main, to make companies, especially SMEs, more competitive through innovation and R&D activities.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

IDEALFOOD has prioritized scientific activities of technological knowledge generation and knowledge application development of R&D, for the benefit of the whole agrifood sector, and, particularly, for the 44 members who make up the association, belonging to different areas of the sector.

Since its inception, IDEALFOOD has led the implementation of more than 100 research projects. The center has organized more than 90 events (meetings, workshops, conferences, courses, etc.), has met the demand of 500 clients and has developed 60 technology transfer actions. It has also become part of several European consortiums for research projects.

AEVIA, Association of companies linked to the Andalusian food industry.

Spanish Olive Technology Platform (ALENTA)

Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

GLOBAL NETWORKS AND CLUSTERS

Previous FP experience

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- RESFOOD: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- AGROBIOFILM. Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
- DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry (FP7-KBBE-2013).
- VERTIGEEN. Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. (FP7-SME-2011).
- TRAFOON. Traditional Food Network to improve the transfer of knowledge for innovation. (FP7-KBBE-2013).
- FERTIPLUS. Reduction of the use of mineral fertilizers and agrochemicals recycling organic material. (FP7- KBBE-2011)

Role in the project

Research; Training; Tech. Development; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation



CITOLIVA-TECHNOLOGICAL CENTRE FOR OLIVE FARMING AND OLIVE OIL

Technological Centre

*PROFILE from SPAIN
(14ES0380)*

TOPIC OF INTEREST

TOPIC

ISIB-3-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

ORGANIZATION EXPERTISE

ENTITY PROFILE

CITOLIVA is a non-profit foundation established to implement methodologies and systems dealing with technological requirements in the olive oil and table olive sectors.

Main activities are based on the following lines of R&D and innovation:

1. Health: improved olive oil quality and new healthy uses of olive oil or by-products. Relevant projects:

a) ASOAN-Biotechnological use of olive by-products from Andalusia aimed at food and agriculture sector

b) ATENA-Olive oil and other healthy fats. Technological applications for processing into value-added products

c) OLEA TEMPURA-Study of the behavior of olive oil in frying

2. Sustainability in farms and olive industries. Related projects:

a) OiLCA-Enhancing the competitiveness and reducing the carbon footprint of the olive oil sector through waste management optimisation and the establishment of an ecological label

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b) AOFT NIR-Real time application of AOTF NIR technology in mills for the improvement of production control, quality control and traceability of olive oil

c) ACTIVEOLIVE-Preservation of highly perishable food products by active packaging with natural compounds from olive oil industry

d) OLEOSIG-Geographic information system for the traceability of olive oil

3. Competitiveness: markets and strategies for the olive sector. Examples of projects:

a) STRATEGO-Strategic marketing plans of olive sector

b) Management of the Spanish Olive Technology Platform (ALENTA) and the Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)

Finally, CITOLIVA acts as an entity of transfer between science, industry and society in these three lines of action.

Expertise offered (related to the topic)

CITOLIVA has a deep understanding of the olive oil and table olive sector. Specific expertise in the topic is based in the following background and technological tools:

a. Market and innovation studies

b. Estudios for public administrations

c. Communication, dissemination and transfer of research results

d. Mangament and coordination of European projects

Previous FP experience

FP7-KBBE-2013-7-single-stage: TraFooN-Traditional Food Network to improve the transfer of knowledge for innovation. Grant Agreement nº: 613912

FP7-SME-2011-BSG: VERTIGEEN-Inexpensive and reliable on-site solution for olive producers to contain verticillium wilt. Grant Agreement nº: 286140

FP7-SME-2012-BSG: ENTOMATIC-Novel automatic and stand-alone integrated pest management tool for remote count and bio acoustic identification of the Olive Fly (*Bactrocera oleae*) in the field. In negotiation

FP7-KBBE-2013-7-single-stage: EUthentic -Harmonised solutions to Ensure food quality and aUTHENTICity: innovative tools to support European consumers, producers and policy-makers. Submitted

■ ■ ■ 965



FP7-REGIONS-2012-2013-1: SYNELEA-Sustainable innovations and exploitation in agricultural residues' clusters. Submitted

FP7 FOOD UP-Evaluation of the determinants of nutrition and peripheral satiety signals in the brain. Submitted

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0242)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Geomatics, GIS and remote sensing
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence
- Data flows integration and management, Data science
- Graphical and interactive design
- Geographic Big Data handling and processing

R&D Projects:

■ ■ ■ 967



MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with a heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has always felt at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

URL: <http://www.juntadeandalucia.es/medioambiente/site/rediam> results integrated in REDIAM Portal,

Expertise offered (related to the topic)

■ ■ ■ 968



Geographica would like to hereby express our greatest interest in collaborating in projects under the topic ISIB 4 - 2014/2015: Improved data and management models for sustainable forestry, based on improving the record of forest data, systems of monitoring and management models (cataloguing, cartography, monitoring, data harmonization).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA's environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

We have also collaborate in an international projet which scope was very similar to those that this topic address, we have participate in a marine prospection mission of Cap des Trois Fourches (Morocco) for the developing a solution for the Regional Activity Centre for Specially Protected Areas (RAC/SPA) in the context of the MedPANnet project. For this project we have collected information on marine protected areas and gather data about marine communities of coastal funds using a remotely operated vehicle (ROV). Our role in the project was the data collection to make the required layers to create a map and information system of marine communities.

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators . This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision making and policy processes.

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Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

We have experience contributing to European Project's consortiums providing high-tech solutions.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)

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- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



*GALICIAN INSTITUTE OF AGROBIOLOGICAL RESEARCH.
SPANISH NATIONAL RESEARCH COUNCIL. CSIC*

R&D Institution

*PROFILE from Spain
(14ES0243)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group, namely "Biotechnology of Woody Plants", belongs to the "Galician Institute of Agrobiological Research" (IIAG) of the Spanish National Research Council (CSIC). It is located in Santiago de Compostela (Northwest Spain).

We have large experience in the propagation and germplasm preservation of woody species as well in biochemical, cellular and molecular analysis of their developmental processes. Besides basic approaches studied through national and regional projects, applied biotechnological aspects have also been developed through collaboration with companies.

Related Projects:

- INTEGRACASTANEA: Vertical integration project on chestnut: from breeding to final products. FEDER-INNTERCONECTA 2013-2014.
- Characterization of chestnut genes involved in morphogenetic processes related to clonal propagation of selected trees. 10 MRU400033PR. 2010-2013.
- Large-scale biotechnological production of improved materials for chestnut breeding. 09MRU016E. 2009-2012.

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- Biotechnology applied to forestry production. Somatic embryogenesis in mature materials of chestnut, oak and beech. Genetic transformation. 9MRU002400PR. 2009-2012.
- Functional analysis of GRAS genes during adventitious rooting of forestry species. AGL2008-05105-C02-02. 2009-2011.
- Development of liquid culture systems for genetic transformation of embryogenic lines of *Quercus robur*. CSIC. PIE 200940I011. 2010.
- In vitro propagation of *Croton lechleri* Muell-Arg for sustainable management in Ecuador. A/013564/07. 2008-2009.
- Non-hormonal Compounds and Signalling Pathways for the Improvement of Adventitious Rooting in Forest Species. Integrated Action Italy-Spain. 2008-2009.
- Somatic embryogenesis in mature oak; basic aspects regarding its induction. Genetic transformation. AGL2006-01387. 2006-2009.
- Biotechnology applied to forestry production. Genetic transformation of chestnut, poplar and birch. AGL2005-00709. 2005-2008.
- Propagation and germplasm preservation of oak selected genotypes by somatic embryogenesis and cryopreservation. PGIDT03RF040001PR. 2003-2006.

Expertise offered (related to the topic)

1) Evaluation and preservation of forest biodiversity.

1.1) Evaluation of intraspecific genetic diversity by using DNA markers

1.2) Ex situ preservation of material of adult trees by

micropropagation (axillary shoots and embryogenic cultures);

medium-term storage by slow growth techniques and long-term

storage by establishment of cryopreserved gene banks of

selected genotypes.

2) Large-scale production of selected trees by micropropagation: establishment, proliferation in semisolid and liquid medium (bioreactors), rooting and acclimation.

3) Genetic expression in woody plants: genes related to plant development and defence mechanisms.

Previous FP experience

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Proposal participation:

- Comparative and functional forest genomics for abiotic stress, adaptation and productivity.
Collaborative Research Program Spain-Canada 2004

Actions COST:

Action 822: Development of integrated systems for large-scale propagation of elite plants using in vitro techniques. 1994-1999

Action G4: Multidisciplinary Chestnut Research. 1997-2001

Action 843: Quality Enhancement of Plant Production through Tissue Culture. 1999-2004

Action E-28: GENOSILVA: European Forest Genomics Network. 2002-2006

Action COST FP0905: Biosafety of Forest Transgenic Trees: Improving the Scientific Basis for Safe Tree Development and Implementation of EU Policy Directives. 2010-2014

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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E-mail: galactea@cisgalicia.org

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



RESEARCH GROUP: "DINÁMICA FLUVIAL E HIDROLOGÍA" (TEP-248). UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES0267)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Cordoba, founded as such in 1972, has its roots in the Free University of the province of Cordoba in the late nineteenth century and has ancient studies such as Veterinary, unique in Andalusia. The dynamism of the UCO due to its youth and average dimensions - 21,000 students, 1,600 teachers and 700 employees - has helped to get to the twenty-first century as a high quality teaching and scientifically sound University. Since 2009, the University of Cordoba leads the Agrifood Campus of International Excellence (CeIA3), a project to modernize and internationalize the participating universities towards a sustainable production model based on knowledge.

Lecturers and researchers of the UCO, apart from lecturing among its more than 90 undergraduate and graduate degrees, lead about 200 research projects at international, national and regional levels of up to 28 millions of Euros. Similarly, there are 190 research groups whose average scientific output reached the 3,170 publications in the last three years.

The River Dynamics and Hydrology Group, works in the integrated management of watersheds and coastal areas and has certain experience in erosion studies. The Group has participated in 15 projects of public and private calls with a total of 74 publications in the last five years. A result of the researching activities is WiMMed, a free software distributed hydrological model for Mediterranean watersheds that includes the simulation of water flows and associated sediment and other substances fluxes. The Group collaborates with the Andalusian Water Agency in participation actions,

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training and transfer. Thus, the Group has been recently awarded with the Award for Knowledge Transfer of the UCO Social Council UCO in its third edition.

Expertise offered (related to the topic)

The expertise offered by the Group involves the available tools for the evaluation of the soil water balance that conditions the dynamics of forestry ecosystems. Previous studies carried out by the Group have dealt with the relationship between the vigor of different vegetation covers and the soil moisture content at the forest scale.

Previous FP experience

The Group has participated in two previous projects of the FP: 1) Integrated Management of Mediterranean Watersheds of the BVM INTERREG III-B MEDOCC call and 2) Novel Integrated water management system for southern European regions (NOVIWAM) of the FP7 Regions of knowledge call.

Role in the project

Research; Training; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



*SUSTAINABLE FOREST MANAGEMENT UNIT (UFXS).
UNIVERSITY OF SANTIAGO DE COMPOSTELA*

R&D Institution

*PROFILE from Spain
(14ES0244)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

UFXS lines of work:

- Modelling of forest growth and productivity
- Forest management and silviculture
- Forest biomass, energy plantations and carbon fixation. Soil and forest nutrition
- Forest certification
- Multicriteria decision making and optimization
- Timber properties, analysis of wood structures
- Forest health
- Forest fires Research network of terrestrial ecosystems sustainable management (RIMSET)

R&D Projects:

- "Research network of terrestrial ecosystems sustainable management (RIMSET)"

(000000000092739) International European Fund European Union - Mexico

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- "Sustainable management of forest: a European network of pilot zones for putting this into operational effect." (O20 FORSEE). INTERREG IIIB Programme.

- "Productivity and dynamic of organic matter in cloned plantations and seedlings of *Eucalyptus globulus* Labill. in North-western Spain. Subproject: growth and yield modelling of cloned plantations and seedlings of *Eucalyptus globulus* Labill. in North-western Spain" (AGL2010-22308-C02-01/FOR). VI Spanish National R&D&I Plan and co-founded by ERDF.

- "Dynamic growth models and carbon sequestration capacity of native broadleaved forests in northwest Spain. Subproject 1: Evolution models of native broadleaved forests in northwest Spain." (AGL2007-66739-CO2-01/FOR). V Spanish National R&D&I Plan and co-founded by ERDF.

- "Carbon sequestration in afforested agricultural land: stabilization of captured carbon by physical protection. Subproject: Study of carbon stabilization in afforested agricultural soils." (AGL2009-13400-CO5-04/FOR). VI Spanish National R&D&I Plan and co-founded by ERDF.

- "Silvicultural treatments and tree-growth models in Atlantic pinewoods" (AGL2004-07976-CO2-01). V Spanish National R&D&I Plan and co-founded by ERDF.

- "Growth and evolution of pine stands in Galicia" (AGL2001-3871-CO2-01). IV Spanish National R&D&I Plan and co-founded by ERDF.

Expertise offered (related to the topic)

- Studies: taper equations yield tables, forest inventories, forest management plans, nutritional diagnosis and forest fertilization, evaluations of forest biomass and carbon capture, phytosanitary evaluations and pest control systems, reports on forest certification, etc.
- Development of software for inventories, forest management, etc.

Previous FP experience

"Elaboration of advanced-level models for density management of coniferous and broadleaved even-aged natural stands and plantations in Europe, EurSDMDPineBirchOak (PIEF-GA-2009-235039)". FP7, Marie Curie Intra-European Fellowships.

"An Innovative Approach to Integrated Wild Land Fire Management and Regulating The Wildfire Problem by The Wise Use of Fire: Solving the Fire Paradox (FP6-018505)". FP6.

"Improving and Advancing Co-ordination of Forest Research and Development in Europe, IMACFORD (QLK5-CT-2002-30221)". FP5.

Role in the project

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0245)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

In the sustainable management of forests and woodlands, we are experts on the following lines:

- Realization of forest management plans, reforestation and maintenance of forest plantations.
- Advice to 450 farmers and foresters on the management of 7,800 hectares of forest áreas.

We have also patented a method of direct seeding reforestation with a container structure that it allows the sown directly into the soil where the tree will grow up.

The method relaxes the time of planting, and removes all underlying cultural tasks of caring for forest plants and the need of the forest nurseries. Also it allows that the trees grow up acclimated in the soil that they will live. This system was tasting successfully and now it is necessary to see how it is with other climatic conditions.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration;

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-4-2014/2015: Improved data and management models for sustainable forestry



GRUPO TRAGSA

Large company

*PROFILE from Spain
(14ES0246)*

TOPIC OF INTEREST

TOPIC

ISIB-4-2014/2015: Improved data and management models for sustainable forestry

ORGANIZATION EXPERTISE

ENTITY PROFILE

TRAGSA is the matrix company of GRUPO TRAGSA, a State owned Spanish company which provides the Spanish Ministry of the Environment, Rural and Marine Development with engineering and infrastructure services and management-related technical and administrative support. GRUPO TRAGSA is a leading company in the forestry and agricultural development segments of the Spanish technical assistance and engineering field.

GRUPO TRAGSA has strong presence nationwide, with offices in 17 regions and 52 provinces, providing added value in terms of quick and effective implementation and execution of entrusted projects.

The international presence of GRUPO TRAGSA seeks the transfer of know-how, experience and technology in its chosen areas of expertise, with more than 120 projects in 35 countries in North Africa, Sub-Saharan Africa, Latin America and the Caribbean, Asia, Europe and the Middle East. This international presence, which was mainly initiated through Spanish co-operation projects, has expanded

with input from experts and the successful winning of tenders in which GRUPO TRAGSA has participated, both individually and in consortium arrangements.

GRUPO TRAGSA counts on an Innovation, Research and Development Unit in charge of the monitoring, management and technical support of the R&D projects carried out by the different units

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of the company. It has a wide experience in the management of national and international cooperation projects. Within the European Framework Programme.

Expertise offered (related to the topic)

As a company working for the Spanish Administrations, TRAGSA has a wide experience in sustainable forest management and forest monitoring, as the company is in charge of the silvicultural operations in very sensitive and protected areas (Natural and National Parks, Natural Reserves...).

The main lines of activity in this area are:

- Strategic planning of forest policy and forest management.
- Restoration projects and activities and improvement of forests.
- Forest inventories and maps.
- Reforestation, thinning, pruning and clearing.

Investment in R&D projects, as well as continuous training, allow obtaining an advanced knowledge and a continuous improvement of the management and monitoring techniques.

Previous FP experience

c@R: Collaboration at Rural (FP6, www.c-rural.eu)

FUME: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FP7, www.fumeproject.eu)

SmartOpenData: Linked Open Data for environment protection in Smart Regions (FP7, www.smartopendata.eu)

Other EU funded projects: HABITATS (CIP, www.inspiredhabitats.eu), SATFOR (INTERREG IVB Sudoe, www.satfor.eu), FORRISK (INTERREG IVB Sudoe, <http://forrisk.efiatlantic.efi.int>), VELIF (LIFE-Environmental).

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

■ ■ ■ 984

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD FROM FARM TO FORK	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-5-2014: Renewable oil crops as a source of bio-based products



FUNDACIÓN ANDALTEC I+D+I

SME

*PROFILE from Spain
(14ES0247)*

TOPIC OF INTEREST

TOPIC

ISIB-5-2014: Renewable oil crops as a source of bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

ANDALTEC was created in 2003 is high-tech SME with research capacities recognized as National Plastic Technological Centre in Andalusia (Spain). Its main objectives focus on improving the competitiveness of companies mainly of plastics and processed metals sectors and strengthening the economy through research, technological development and innovation. We are a non-profit organization. The organisation is made up of a professional staff of over 90 employees from diverse technical specialization. This team consists on PhD, PhD students, Engineers, Designers, Chemistry and Physics Graduates. In addition, ANDALTEC personnel include experts in the field of polymers who know the industrial reality in depth and provide appropriate solutions which best meet the needs of enterprises.

ANDALTEC enjoys excellent working relationships with the enterprises in the plastics sector in Andalusia, with other technological centres, universities and research centres around Europe, with whom key R&D projects have been carried out.

Our R&D projects lines can be summarized as follows: Product and process design, productivity improvement, environmental issues, new materials, and packaging solutions.

Expertise offered (related to the topic)

Bioplastic identification, characterisation and processing. Byproducts valorisation. Small scale bioreactors desing and operation. Expertise in the field of plastic industrial production demonstration to assess viability. LCA, exploitation and dissemination expertise.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

SUSFLEX: Advanced and flexible technologies for active, intelligent and sustainable food packaging. (FP7-KBBE 2011-5)

PMJOIN: Development of a Direct Laser Joining of hybrid Plastic-Metal components for industrial applications. (FP7-NMP.2012.2.1.1)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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■ ■ ■ 987

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-5-2014: Renewable oil crops as a source of bio-based products



RESEARCH GROUP: "DEGRADACIÓN DE TÓXICOS ORGÁNICOS" (BIO-191). ESTACIÓN EXPERIMENTAL DEL ZAIDÍN (CSIC)

R&D Institution

*PROFILE from Spain
(14ES0280)*

TOPIC OF INTEREST

TOPIC

ISIB-5-2014: Renewable oil crops as a source of bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Estación Experimental del Zaidín of the CSIC is an agrobiological research institute conducting basic research in plant science, microbiology, and environmental protection. The various research programmes include the optimization of crop yield and resistance for a sustainable and environmentally friendly agriculture, the study of plant-microbe interactions and symbiotic systems, and the development of microbial bioremediation systems. The institute currently carries out numerous european, national, and regional research projects, among others: study of the molecular basis of stress response to reactive oxygen species in plant peroxisomes (BIO2012-36742), sugar signaling in plant carbon metabolism (BIO2012-33292), biotechnological relevance of Na⁺ and K⁺ transporters for improving salinity resistance and K⁺ nutrient efficiency in tomato (CVI-7558), involvement of cation/proton antiporters in potassium nutrition and osmotic and salinic stress (BIO2012-33655), storage proteins in olive tree seeds (CVI-7487), the PUMA3 regulatory system in *Pseudomonas putida aeruginosa* (FP7-PEOPLE-2011-CIG, 303813), signal transduction mechanisms for biofilm formation (CVI-7335), the role of chemotaxis of soil bacteria for root colonization (RNM-4509M), root-targeted strategies for minimizing abiotic stress in horticultural crops (PCOL-SMALL 289365), and the role of cyclic di-GMP in plant-microbe interactions (BIO2011-23032).

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Dr. Basler studied computer science with biology as secondary subject at the Humboldt University of Berlin, and wrote his master's thesis at the Max-Planck-Institute of Molecular Plant Physiology (MPI-MP) in Potsdam. Within the thesis, he developed a database tool for integrating biological sample information from greenhouse plants with experimental data, and applied machine learning methods to the functional classification of compounds using mass spectra. He conducted his PhD in the Systems Biology and Mathematical Modeling group at the MPI-MP, where he developed a computational method for hypothesis testing and growth optimization using genome-scale metabolic networks. In 2013, he was awarded a Marie Curie Intra European Fellowship for an interdisciplinary project aiming at the identification of novel biotransformation pathways for the production of valuable chemicals. The project is highly interdisciplinary, as it is based on the integration of computational modeling with experimental approaches for genetic engineering. The main focus of the research of Dr. Basler is the computational discovery of genetic engineering strategies for chemical production in microorganisms and improving growth properties of crop plants, and their experimental application. His knowledge in computational methods is complemented by experimental techniques in genetic engineering.

Previous FP experience

Dr. Basler has obtained a Marie Curie Intra European Fellowship for Career Development (FP7-PEOPLE-2012-IEF 329682, project "PSEUDOMODEL"), 2013-2015.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-6-2015: Converting CO2 into chemicals



RESEARCH GROUP: "FOOD ENGINEERING AND TECHNOLOGY" (AGR203)

R&D Institution

*PROFILE from Spain
(14ES0248)*

TOPIC OF INTEREST

TOPIC

ISIB-6-2015: Converting CO2 into chemicals

ORGANIZATION EXPERTISE

ENTITY PROFILE

This research group has wide experience in the area of yeast fermentations and enzymatic processes.

Recently the group is dedicated to projects related with the bioethanol production from the agrofood industry wastes. In particular, we have been studying the efficiency of different pre-treatments for the enzymatic hydrolysis of residues and also the production of new enzymes for this hydrolysis.

Some of the recent research projects completed are the following:

- Enzymatic hydrolysis of lignocellulosic agricultural food wastes for biorefinery, using extracts obtained by solid state fermentation.
- Production of fungal pectinases from grape pomace in different types of bioreactor. Evaluation of its use in the clarification of musts and fruit juices.
- Scaling of a multifunctional industrial plant for supercritical extraction of agrifood raw materials.
- Use of lysozyme in the winemaking industrial process of biological aging for the control of microbial spoilage.

Expertise offered (related to the topic)

The group has experience in HPLC and HPLC-MS determination of sugars, polyphenols, aminoacids and others. Also has experience in GC and GC-MS determination of alcohols and organic acids.

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Finally the group has also experience in SEM (Scanning Electron Microscopy) and EDS (Energy Dispersive Microanalysis).

The group has the possibility of develop and control multiple sets of experiments on submerged fermentation and solid state fermentation.

Previous FP experience

Role in the project

Research; ;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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■ ■ ■ 991

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-6-2015: Converting CO2 into chemicals



RESEARCH GROUP: "DEGRADACIÓN DE TÓXICOS ORGÁNICOS" (BIO-191). ESTACIÓN EXPERIMENTAL DEL ZAIDÍN (CSIC)

R&D Institution

*PROFILE from Spain
(14ES0281)*

TOPIC OF INTEREST

TOPIC

ISIB-6-2015: Converting CO2 into chemicals

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Estación Experimental del Zaidín of the CSIC is an agrobiological research institute conducting basic research in plant science, microbiology, and environmental protection. The various research programmes include the optimization of crop yield and resistance for a sustainable and environmentally friendly agriculture, the study of plant-microbe interactions and symbiotic systems, and the development of microbial bioremediation systems. The institute currently carries out numerous european, national, and regional research projects, among others: study of the molecular basis of stress response to reactive oxygen species in plant peroxisomes (BIO2012-36742), sugar signaling in plant carbon metabolism (BIO2012-33292), biotechnological relevance of Na⁺ and K⁺ transporters for improving salinity resistance and K⁺ nutrient efficiency in tomato (CVI-7558), involvement of cation/proton antiporters in potassium nutrition and osmotic and salinic stress (BIO2012-33655), storage proteins in olive tree seeds (CVI-7487), the PUMA3 regulatory system in *Pseudomonas putida aeruginosa* (FP7-PEOPLE-2011-CIG, 303813), signal transduction mechanisms for biofilm formation (CVI-7335), the role of chemotaxis of soil bacteria for root colonization (RNM-4509M), root-targeted strategies for minimizing abiotic stress in horticultural crops (PCOL-SMALL 289365), and the role of cyclic di-GMP in plant-microbe interactions (BIO2011-23032).

Expertise offered (related to the topic)

■ ■ ■ 992

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Dr. Basler studied computer science with biology as secondary subject at the Humboldt University of Berlin, and wrote his master's thesis at the Max-Planck-Institute of Molecular Plant Physiology (MPI-MP) in Potsdam. Within the thesis, he developed a database tool for integrating biological sample information from greenhouse plants with experimental data, and applied machine learning methods to the functional classification of compounds using mass spectra. He conducted his PhD in the Systems Biology and Mathematical Modeling group at the MPI-MP, where he developed a computational method for hypothesis testing and growth optimization using genome-scale metabolic networks. In 2013, he was awarded a Marie Curie Intra European Fellowship for an interdisciplinary project aiming at the identification of novel biotransformation pathways for the production of valuable chemicals. The project is highly interdisciplinary, as it is based on the integration of computational modeling with experimental approaches for genetic engineering. The main focus of the research of Dr. Basler is the computational discovery of genetic engineering strategies for chemical production in microorganisms and improving growth properties of crop plants, and their experimental application. His knowledge in computational methods is complemented by experimental techniques in genetic engineering.

Previous FP experience

Dr. Basler has obtained a Marie Curie Intra European Fellowship for Career Development (FP7-PEOPLE-2012-IEF 329682, project "PSEUDOMODEL"), 2013-2015.

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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■ ■ ■ 993

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-7-2014: Public procurement networks on innovative bio-based products



FUNDACIÓN ANDALTEC I+D+I

SME

*PROFILE from Spain
(14ES0249)*

TOPIC OF INTEREST

TOPIC

ISIB-7-2014: Public procurement networks on innovative bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

ANDALTEC was created in 2003 is high-tech SME with research capacities recognized as National Plastic Technological Centre in Andalusia (Spain). Its main objectives focus on improving the competitiveness of companies mainly of plastics and processed metals sectors and strengthening the economy through research, technological development and innovation. We are a non-profit organization. The organisation is made up of a professional staff of over 90 employees from diverse technical specialization. This team consists on PhD, PhD students, Engineers, Designers, Chemistry and Physics Graduates. In addition, ANDALTEC personnel include experts in the field of polymers who know the industrial reality in depth and provide appropriate solutions which best meet the needs of enterprises.

ANDALTEC enjoys excellent working relationships with the enterprises in the plastics sector in Andalusia, with other technological centres, universities and research centres around Europe, with whom key R&D projects have been carried out.

Our R&D projects lines can be summarized as follows: Product and process design, productivity improvement, environmental issues, new materials, and packaging solutions.

Expertise offered (related to the topic)

Andaltec as technological plastic centre is interested in novel and sustainable bioplastics development. Specially we are interested in biosourced plastics.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

SUSFOFLEX: Advanced and flexible technologies for active, intelligent and sustainable food packaging. (FP7-KBBE 2011-5)

PMJOIN: Development of a Direct Laser Joining of hybrid Plastic-Metal components for industrial applications. (FP7-NMP.2012.2.1.1)

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-7-2014: Public procurement networks on innovative bio-based products



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0250)*

TOPIC OF INTEREST

TOPIC

ISIB-7-2014: Public procurement networks on innovative bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits, using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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City: Ferrol

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-7-2014: Public procurement networks on innovative bio-based products



CEIA3 AGRIFOOD CAMPUS OF INTERNATIONAL EXCELLENCE

R&D Institution

*PROFILE from Spain
(14ES0271)*

TOPIC OF INTEREST

TOPIC

ISIB-7-2014: Public procurement networks on innovative bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ceiA3, Agrifood Campus of International Excellence, is the largest Spanish center for research & specialized development. It is made up by the Universities of Almeria, Cadiz, Cordoba, Huelva and Jaen, and headed by the University of Cordoba, the National Scientific Research Council (CSIC), the Institute for Agricultural and Fisheries Development of Andalusia (IFAPA), and it has also achieved close cooperation with technology parks and a growing number of companies with innovative objectives.

The ceiA3 advances towards the future fully oriented to EU innovation policies based on the European H2020 strategy, on the EIP of Productive and Sustainable Agriculture, and also on the new challenges of the Common Agricultural Policy, whose strategy appears clearly defined towards the bioeconomy and sustainable agriculture.

Currently, ceiA3 has 285 research groups specialized in agriculture and the agrifood industry, with a human potential of over 4,000 people, divided into 16 thematic lines according to their affinity, from which 141 groups emerge with their own light, meeting excellence and scientific production criteria. They comprise 7 research clusters covering strategic areas of knowledge. Since 2009, the number of ceiA3 projects in International Research & Development Programmes totals 267, with a 237% increase in the last year.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We promote the achievement of agreements with private companies and participation in open calls for public institutions, both national (INIA, Andalusia, MECD, etc.) and European (FP7, Horizon 2020, etc.), through which we aspire to ensure the future viability of this project, making it possible to continue our work without necessarily depending on funding through the CEI program calls.

These main lines of research and activity are:

- Biodiversity and the Environment
- Bioenergy
- Integrative Biology
- Food Quality and Safety
- Sustainable Territorial, Rural y Tourism Development
- Agricultural Economics, Policy and Law
- Soil Erosion, Conservation and Fertility
- Rural and Agrifood Engineering
- Plant Breeding and Health
- Animal Breeding and Health
- Nutrition and Health
- Chemistry and Agrifoods
- Water Resources
- Food Technology and Oenology
- Agricultural and Environmental Technologies
- Information Technologies and Biocomputing

Expertise offered (related to the topic)

University excellence requires, on one hand, the attraction and consolidation of talent and, on the other, collaboration with generators of knowledge that complement the university's training and research. For this purpose we are continually working towards the development of bilateral cooperation with international institutions in the Agrifood sector. For years we have collaborated, in teaching and research, with universities of excellence in Agribusiness, like those of California-Davis (U.S.), Concepción (Chile), Técnica de Lisboa (Portugal), Montpellier 2 (France), Wageningen (Netherlands), among others. Likewise, we are finalizing agreements such as possible exchanges

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

between professors, establishing scholarships, or postgraduate programs and other opportunities for collaboration, between the Inter-American Institute for Cooperation on Agriculture (IICA) and the ceiA3.

Agreements were also established with the INNOVAGRO Network in Latin America, with institutions for the development of the agrifood sector, with active participation in forums and definition of future strategies for collaboration. We have established projects involving not only participation in platforms linked to the agrifood sector, such as Food for Life, sustainable agriculture or Triptolemos platform, but also collaboration agreements with multiple major institutions, such as the Spanish Ministry of Agriculture, or Agropolis. Also, agreements with the Ministry of Agriculture and Environment of the Junta de Andalucía (Andalusian Government), the CIBERObn Institute, the FAO of the United Nations, the Spanish Agency for the Defense of the Competence and Parque Sur Uruguay, among others.

We partner with national companies, and different types of institutions (national and regional government institutions, Rural Development Groups, or D.O's, for example) seeking collaboration and knowledge transfer, but also the creation of university-industry synergies that allow us to look to Europe for the capture of funds, to encourage business development through research, enabling us to meet the sector's challenges.

As an example of our potential, a brief description of our Partnerships with Andalusian Rural Development Groups (RDGs) in the field of food and agriculture:

In light of the ceiA3's vocation to establish alliances with its environment, and its social commitment to this environment, it has established an agreement with Rural Development groups (RDG) of the autonomous community of Andalusia, for collaboration in the field of food and agriculture.

The importance of these agreements is based on the proximity of the RDG's to the agrifood research groups of the Andalusian regions, who capture and transfer the concrete needs of the sector, and those to which ceiA3 offers solutions directly, within the measure of its possibilities.

The RDGs linked to ceiA3 will encourage, on the one hand, the arrival and dissemination of knowledge and results, and on the other, will be a communication channel created for this purpose, to allow the demands and needs of employers and sectors to reach the University, especially those of small and medium companies. The Rural Development Group thus becomes a ceiA3 communication element, primarily for its proximity to companies and sectors and their perspective on the development of the territory. During the year 2013, we intensified custom contacts between ceiA3 technical staff and the RDG directors, to pursue joint projects.

Previous FP experience

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Project for enhanced use of Aloe Vera
- Functional design of A3openlink Platform (application stage)
- Waste management in table-olive dressing industry (application stage)

With the GDR for the Development of Guadajoz y Campiña Este de Córdoba (Adegua):

- Analytical platforms in metabolomics / proteomics and use of agri-food waste (pending approval)
- Truffle in the olive grove (pending approval)
- Improving the quality of olive oil by a biological method of controlling the olive fly (in progress).

With the Junta de Andalucía, Agency for Protection of Competition:

- "DEVELOPMENT OF A DATABASE QUALITY AGRIFOOD PRODUCTS" (34/2012) (in progress).

OTHER PROJECTS RELATED TO BIOECONOMY: please note these are EXAMPLES, as the complete list includes 267+ ceiA3 international projects since 2009

Assessing the multiple impacts of the Common Agricultural Policies (CAP) on Rural Economics FP7-SSH-2007-1 Grant Agreement Preparation Forms (UE) CAP-IRE FPVII. Duration, 2007- 2010 Resp. Julio Berbel Vecino AGR-110

- Robot fleets for highly effective agriculture and forestry management" RHEA.: FP7-NMP-2009-LARGE-3, (NMP: Nanosciences, Nanotechnologies, Materials and New Production Technologies), FP7-245986 Duration 2010-2014 Resp Francisca López-Granados AGR-124

- Cost Action "Feed For Health" (Fa0802). FP7-UE Duration 2008-2012 Representante COST (España), Ana Garrido Varo AGR-128

- Food and feed Laboratory of Varied and Outstanding Research in Estonia (FLAVOURE). FP7-UE "Research Potential" FP7-REGPOT-2008-1. Spanish National Research Council (CSIC). Duration 2009-2011 AGR-136

- Legume-supported cropping systems for Europe" (FP7-KBBE-2009-3 Legume Futures). VII FP-UE AGR-140

- EUBERRY: The sustainable improvement of European berry production, quality and nutritional value in a changing environment: Strawberries, Currants, Blackberries, Blueberries and Raspberries. FP7-UE AGR-236

- Agricultura Sostenible en la Aritmética del Carbono (LIFE08 ENV/E/000129-AGRICARBON). FP7-UE Duration 2010 - 2014 Resp. Rafaela Ordóñez Fernández. AGR-244

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- Genomics-Based Investigations in Orobanchae-Host Interactions FP7-PEOPLE-2009-IOF Project number 252538, Marie Curie Actions—International Outgoing Fellowships (IOF), Participantes: CSIC & Vtech (USA) Duration 2010-2013 Coord. Diego Rubiales AGR-253
- Signalling circuitry controlling fungal virulence: identification and characterization of conserved and specific fungal virulence genes as common antifungal targets (ARIADNE) FP7-PEOPLE-ITN-237936 (Marie Curie Initial Training Networks) Duration 2009-2013 Resp. A. Di Pietro BIO-138
- SUSTOIL FP7-213637.-Developing Advanced Biorrefinery Schemes For Integration Into Existing Oil. Production/Transesterification Plants. Resp. Diego Luna Martínez FQM-162
- European Phosphorus Sciences Network (PhosSciNet). Acción COST CM0802 FP7-UE Resp. Antonio Manuel Romerosa Nievas. Duration: 2008 - 2013 FQM-317
- Mechanisms Underlying Coping Strategies and Welfare In Farmed Salmon, Sea Bass and Sea Bream. FP7-KBBE. Duration 2010-2014 Resp. José Antonio Muñoz Cueto RNM-216
- Meeting the challenges of the farm of tomorrow by integrating farm management information systems to support real-time management decisions and compliance to standards - futurefarm FP7-KBBE-2007 Resp. Jose Luis Guzmán Sánchez. TEP -197
- EADGENE. European Animal Disease Genomics Research Group for Animal Health and Food Safety. FP7 KBBE.2010.4-01. Duration, 2011 -2013 Resp. Juan José Garrido Pavón AGR-231
- Sustainable Organic and Low-input Dairying (SOLID). Proyecto Europeo FP7-KBB2-2010-4-266267 (FP7) Duration, 2011-2016 Resp. Nigel Scollan AGR-171
- Technological platform to develop nutritional additives to reduce methane emissions from ruminants. FP7-SME-2010-1-262270 (FP7) Duration, 2010-2012 Resp. David R. Yáñez Ruiz AGR-171

Role in the project

Research; Training; Tech. Development; Other

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

ISIB-7-2014: Public procurement networks on innovative bio-based products



RESEARCH GROUP: "QUÍMICA ANALÍTICA DE CONTAMINANTES" (FQM170)

R&D Institution

PROFILE from Spain
(14ES0251)

TOPIC OF INTEREST

TOPIC

ISIB-7-2014: Public procurement networks on innovative bio-based products

ORGANIZATION EXPERTISE

ENTITY PROFILE

As cooperation partner, we are focused on R&D and knowledge transfer activities in food safety and quality. Our activities, including on-going R&D projects, can be summarized as follows:

a) Determination of bioactive compounds in food and nutraceutical products: analysis of flavones, isoflavones, glucosinolates and other phytochemicals in fruits, vegetables and nutraceutical products based on soy, tea, etc. These determinations are based on liquid chromatography (LC) coupled to low resolution mass spectrometry (LRMS, triple quadrupole, QqQ) or high resolution mass spectrometry (HRMS, Orbitrap). We have expertise on the development of databases (using Orbitrap) for the screening/determination of the content of phytochemicals.

b) Assurance of food safety in nutraceutical products. For that purpose, pesticides and mycotoxins, among other contaminants, are being determined in this type of products, including both parent and degradation products. Gas chromatography (GC) and LC coupled to LRMS or HRMS (QqQ, Orbitrap, TOF, QTOF, and magnetic sector) have been used. Currently, we are working with a database of > 500 compounds for the screening of residues and organic contaminants in food samples and nutraceutical products (Orbitrap).

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

c) Moreover, analytical methods have been developed for the determination of contaminants and/or antibiotics in biological fluids and environmental samples such as soils and wastewater. The developed methods have been applied in several monitoring programs.

d) Establishment of validation and quality control procedures for the evaluation of the reliability of the developed methods. Quantitative validation and quality control procedures have also been performed in order to assure that the developed methods fulfil the requirements set by international legislation.

e) Transfer of knowledge: the developed methodologies and knowledge are transfer to control laboratories when required, normally within the framework of projects with private laboratories.

Expertise offered (related to the topic)

The Research Group can provide analytical support related to this topic:

- 1) Quality control procedures for the reliable determination of phytochemicals and organic and biological contaminants (i. e. pesticides and mycotoxins) in final nutraceutical, ingredients and intermediate products.
- 2) LC-MS and GC-MS instruments are available for adequate identification/confirmation of a high variety of compounds, including bioactive compounds and residues/organic.
- 3) The application of the Exactive-Orbitrap technology and their databases allows the fast and reliable determination of residues and organic contaminants, such as pesticides and mycotoxins (database 1), as well as phytochemicals (database 2) in nutraceuticals and foodstuffs, in general.
- 4) Use of the analytical knowledge to improve/evaluate manufacturing processes in nutraceutical production.
- 5) Application of pattern recognition models (unsupervised and supervised) to differentiate varieties of several food products or with different origin.

Previous FP experience

The group had participated as a partner in a Project during the IV EU Framework (FP4), entitled "The assessment of risk of exposure to plant protection products by operators, bystanders and workers and the environment" (REF: SMT4-CJ96-2048 (DG12-RSMT). Furthermore we have participated in the preparation of other projects in several calls (i.e. FP7-REGIONS-2009-1, Cooperation ENV.2008.6.1.2.1.4), obtaining good score, although the Project was not finally founded. Finally, in the last call of the FP7, we submitted a proposal related to this topic as coordinators and another one as partner (FP7-KBBE-2013-7), but both projects were not founded.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards an innovative and responsible bioeconomy



GEOGRAPHICA

SME

*PROFILE from Spain
(14ES0252)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards an innovative and responsible bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

Geographica is a technology-based spin-off business from the University of Seville. It is specialized in advanced geospatial technology and personalized software solutions that integrate, analyze, and display data (for desktop, web and mobile). Our staff expert areas include:

- Physical and human geography
- Global Systems Science
- Graphical and interactive design, Geomarketing, corporate project design
- Software and systems engineering and Technology Platform development
- Geographic database modeling, geographic modelization
- Geostatistical analysis, data and business intelligence, Geomatics, GIS and remote sensing
- Data flows integration and management, Data science
- Geographic Big Data handling and processing

We are experts in Global and Information Systems Science: We manage a big deal of heterogeneous information and Big Data within an organization coming from different sources to put it to full use with innovative tools focused on maps, data, advanced statistics and indicators. This new information is of prime importance for citizens, NGOs, policy makers, etc. to assist in the decision

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

making and policy processes. We use the latest technologies in geographic information to geolocalize data and show them in a clear and tidy way, with high-end functionality.

R&D Projects:

- MedMIS: Information System for monitoring invasive species in Mediterranean Marine Protected Area. Development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean. This online tool contains a Species Guide based on the recent publication produced by IUCN (International Union for Conservation of Nature) in the context of the MedPAN North project, it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Territorial Control Center tools for decision making: development of a complete tool for geographical data management to assist corporate and government officers in critical decision making processes in the investment, management, security, and facilities fields. It allows the online visualization and edition of spatial information, reporting, creation of indicators in real time, make hypothetical scenarios and comparisons of them, and perform evolutive studies.

Project: Mirador

Client: Province Governments of Burgos and Sevilla

URL: <http://mirador.dipusevilla.es/>

- From our beginnings as an enterprise we have had close ties with the University and research world. Each year we spend more and more time researching new solutions for earth and social scientists and geographers. As not just a development company, but one with an heterogeneous team of developers and thematic experts (environmentalists, geographers and other earth scientists), Geographica has felt always at home dealing with research institutions, because we share a common language and are more suited to understand their technical needs.

- Scientific Modeling Tools Development: Geographic database modeling, data storage and exploitation, and analysis tool development for university and national scientific institutes research teams.

Project: Andalusian Coastal Subsystem geographic DB

Client: Physical Geography & Coastal Research Group, University of Seville

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URL: results integrated in REDIAM Portal,
<http://www.juntadeandalucia.es/medioambiente/site/rediam>

For our developments we choose Open Source Software, as an Open Source company, it really appeal to us that Horizon 2020 framework intends all software developments under the programme to be open source and also to use open data for all the projects.

Expertise offered (related to the topic)

Geographica would like to hereby express our greatest interest in collaborating in projects under the topic ISIB 8 - 2014: Towards an innovative and responsible bioeconomy based on the creation of bioeconomy platforms, for informed debates involving policy makers, scientists, business, organisations and citizens, building on existing tools. We have experience contributing to European Project´s consortiums providing high-tech solutions:

We have collaborate in a international projet which scope was very similar to those that this topic address developing web visor and applications to show project's results, developing Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at the disseminatation of projects results and project, knowledge, team, and document management. We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7).

We have participate in the international projet MedMIS, developing a solution for the International Union for the Conservation of Nature (IUCN) in the context of the MedPAN North project (URL: <http://www.iucn-medmis.org>).

For MedMIS project we have developed an online information system and a mobile application for monitoring invasive non-native species in Mediterranean Marine Protected Areas (MPAs).

It contains information on the pathways and impacts of major marine species that have invaded the Mediterranean Sea, their distribution on MPAs and how to monitor and identify them as well as what can be done to prevent their establishment and spread in the MPA´s environment. it has functionalities such as Maps, Reports, Discussion, and Warnings.

It allows marine scientists or people interested in conservational issues to upload reports of sightings of invasive alien species and to take part in identification discussions.

Geomatics for European Projects: We collaborate in a project with the Università Ca' Foscari from Venice and the European Spatial Agency (ESA), we bring our experience in the management of working groups and dissemination of results of an outstanding group of scientists and researchers. Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI,

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7).

Because we have experience developing solutions for projects of this theme and because of our cross-cutting expertise we think we could fit in a large range of projects under this call, collaborating in projects of different themes. Our multidisciplinary skilled staff and expertise area are able to contribute to any project in this topic providing added value.

Added value to any project: Collaborative technology platform for integrated project management

Geographica has deployed and customized tools for integrated project management for several european project consortia. Integration between tools like Content Management Systems, Document Management Systems, user's forums, shared calendars and contacts, and project planning methodologies makes for a powerful environment for consortia and project management. It has already been applied in FP7 PEGASO Project.

Geographica design and develops spatial data infrastructures based on the Inspire and EuroGEOSS, and GEOSS standards. We build easy to use webs, both public and intranets, to show indicators, cartographic viewers, and cartographic reporting.

Our approach to software development is not just centered on technology: we put on all our projects a great thematic and specialized knowledge. We develop software with the aim to get the greatest understanding of the data and a proper data analysis with it.

We have experience in geospatial technologies applied to scientific research and computing projects. We provide technical-scientific assistance and training to projects, bringing into them advanced statistical analysis and geomatic developments. We have ample experience designing scientific proposals with universities and research centers.

Previous FP experience

Expertise in International and European projects:

- IUCN - MedPAN: development of a Mobile App and Web Platform for Marine Invasive Species monitoring in Marine Protected Areas in the Mediterranean.

Project: MedMIS for IUCN

URL: <http://www.iucn-medmis.org>

- Collaborative Platforms and Corporate Identity Project design: We build easy to use collaborative webs, both public and intranets, aimed at project, knowledge, team, and document management.

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We also make the Corporate and project identity design, ranging from naming, branding, web site, instructions manuals, and casing design. PEGASO Project (FP7):

- Geomatics for European Projects: Assistance in EU Projects from FP7 in the geomatics area. Generation of nodal, multipartners SDI, with OGC services interfaces and compliant with INSPIRE and EuroGEOSS directives. MEDINA Project (FP7)
- Real-time meteorological data post-processing and storing: Our role is the Real-time meteorological data post-processing and storing, the Project Website development and project identity design. MARG Project (FP7)

Role in the project

Research; Training; Tech. Development; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards an innovative and responsible bioeconomy



QUEIZUAR

SME

*PROFILE from Spain
(14ES0253)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards an innovative and responsible bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

Queizuar is an SME, created in 1997 that produces traditional PDO cheese. It is located in Galicia the leading milk producer region in Spain, with approximately 55% of the Spanish dairy farms.

Nowadays, Queizuar-Bama processes 50.000 litres per day, producing 3 types of cheese: Arzua Ulloa Protected Denomination of Origin, Tetilla Protected Denomination of Origin and Fresh cheese.

Queizuar has been working in 5 R&D projects during the last 7 years:

1-“Estudio das alteracións superficiais aparecidas na produción de queixos das denominacións de orixe Tetilla e Arzúa-Ulloa” (Study of surface alterations appeared in the production of PDO cheeses: Tetilla and Arzúa-Ulloa) – PGIDIT05TAL011E (Xunta de Galicia – Spain) – (2005-2008)

2-“Valorización dos soros de queixería mediante a produción de ingredientes alimenticios funcionais e produción de bioetanol” (Cheese whey valorization through the production of functional food ingredients and bioethanol) – PGIDIT07TAL006E (Xunta de Galicia – Spain) – (2006-2008)

3-“Obtención dun preparado lácteo funcional a partir dos soros de queixería” (Obtaining a Functional Dairy prepared from cheese whey) – PGIDIT09TAL002E (Xunta de Galicia – Spain) – (2008-2010)

4- “Valorización dos soros de queixería mediante a produción de bioetanol” (Cheese Whey valorization through bioethanol production) – PGIDIT09REM001E (Xunta de Galicia – Spain) – (2008-2010)

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

5- “Valorización do soro de leite mediante a produción de bioetanol e dun novo produto con propiedades anti-hipertensivas” (Cheese whey valorization by producing bioethanol and a new product with antihypertensive properties) – FEADER 12/11 (Xunta de Galicia – Spain) – (2012-2013)

Expertise offered (related to the topic)

Queizuar is aware with the environment and sustainability, and its last four R&D projects are focused on reducing its fossil fuel consumption and reducing the cheese whey impact on the environment. Continuing with the effort of the company to contribute to low resources consumption Queizuar would work in future projects related with environment and sustainability.

Previous FP experience

Queizuar presented since 2011 three european projects as coordinators (2 Eurostars and 1 KBBE) and one KBBE project as partners. The last one has been elected to be financed by the EU, and it began the last 1st of November.

Role in the project

Research; Tech. Development; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards an innovative and responsible bioeconomy

 **UNIVERSITY OF GASTRONOMIC SCIENCES/ SYSTEMIC FOOD DESIGN RESEARCH UNIT**

R&D Institution

*PROFILE from Italy
(14IT0254)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards an innovative and responsible bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Gastronomic Sciences, founded in 2004 by the international non-profit Slow Food in cooperation with the Italian regions of Piedmont and Emilia-Romagna, is a ministerially recognized, private non-profit institution.

Its goal is to create an international research and education center for those working on renewing farming methods, protecting biodiversity, and building an organic relationship between gastronomy and agricultural science.

Relevant projects:

2010-2012 Poliedro , Pollenzo Index Environmental and Economics Design funded by Piedmont Region

2011-2013 Pollenzo's Index funded by Turin Commercial Chambre

2010-2012 People Interaction with Enhanced Multimodal Objects for a new territorial experience-Want-eat, funded by Piedmont Region

2012-2013 Systemic Food Design funded by Comieco

Expertise offered (related to the topic)

Systemic design according the principle of circular economy to optimise food production, processing, commercialisation systems

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Eco- Packaging (primary, secondary and tertiary)

Interaction with smart objects (App, augmented reality, QR code, App, website, Innovative Social Network)

Design of Eco-events

Previous FP experience

No previous experience

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards an innovative and responsible bioeconomy



AGENCIA ANDALUZA DEL CONOCIMIENTO

Other organization(consulting,association,...)

*PROFILE from Spain
(14ES0255)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards an innovative and responsible bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

The AAC is a public agency that depends on the Regional Ministry of Economy, Innovation and Science of the Regional Government of Andalusia. Our mission is to foster Innovation among Andalusian entities and to help them to internationalise their innovations. We are partners of the Enterprise Europe Network. We are responsible in Andalusia for the promotion and support of participation in European-funded R&D and innovation programmes. Due to our experience in managing European R&D and innovation funded projects, we hold an extensive knowledge on:

- Business and research communities throughout the Region
- Different sectors, leading industries and technologies, as well as the major R&D priority lines

Our services to companies, research groups and technology centres include:

- Providing with relevant information on the existing funding opportunities
- Screening and finding the right technology partners for each project
- Providing support services to proposers for a successful proposal preparation, including EC contract negotiation.

The AAC is also the Regional entity in charge of promoting technology transfer involving companies, research groups and technology centres at regional, national and European level. Our services include:

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- Finding the best Andalusian partner for a technology transfer process
- Accessing to a regional catalogue of technology offers and requests
- Connecting with companies and researchers ready to develop an international collaboration
- Assessing the best and newest R&D and innovation investing lines in Andalusia
- Reporting on Andalusian R&D and innovation technology status

As member of the Enterprise Europe Network (EEN), the AAC has a dedicated team of experts in Technology Transfer with a deep knowledge of their respective sector. There is a dedicated person to the Agrofood area, with a scientific background in research in the agrofood industry and extensive experience in Technology Transfer in the agrofood sector.

Expertise offered (related to the topic)

The Agencia Andaluza del Conocimiento (AAC) is member of the Enterprise Europe Network and active in Technology and Innovation transfer to SMEs for over 10 years. We offer an extensive network of contacts at regional, national and international level. The AAC acts as link between industry and academia, including Technology Centres, which act as regional clusters in their specific sectors.

We are interested in taking part in H2020 consortiums focused to improving innovation and technology transfer in bioeconomy where we can contribute with our experience in communication services and exploitation support services to SMEs. The AAC's dedicated team of experts has as well extensive experience helping SMEs to improve their competitiveness and with their product development strategies (IPR, EU law, internationalization of businesses, etc.).

The AAC has as well a long standing interaction with all stakeholders of the Agrofood sector, including producers (SMEs), Technology Centres, Research Centres, Universities and government and we have set up a regional platform in order to facilitate networking and the flow from research results to innovation (market).

Our experience in technology transfer is coupled with the active search for appropriate funding sources for SMEs in order to help them with their sustained effort on R&D and Innovation activities. This includes a dedicated team of experts in international R&D&i programmes, including H2020 that can help SMEs in their search for funding for their activities. Another part of our activities with SMEs is to foster entrepreneurship, assisting entrepreneurs during the process of starting their businesses, in the search for funding, etc.

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Previous FP experience

We have also vast experience in managing EU-funded projects. Currently we participate in four European projects, including FP7-Cooperation (KBBE-2013, www.trafoon.eu), FP7-Capacities (RoK and SiS), FP7-People (Cofund) and Interreg SUDOE (www.foodsme-hop.eu). Our staff has extensive experience in the (successful) preparation and management of Framework Programme projects, in some cases since FP5. Our activities with Andalusian entities, including SMEs, involve the organization of regional info-days for FP7 calls of proposals, guidance and advice on proposal preparation and submission, specific training on proposal preparation and project management, support to entities participating in international events (European info-days, brokerage events, and proposers' days).

Role in the project

Training; Management; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards an innovative and responsible bioeconomy



INGENIERIA ARZA S.L.

Other organization(consulting,association,...)

*PROFILE from SPAIN
(14ES0256)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards an innovative and responsible bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

Ingeniería Arza SL (ARZA), is the leader of a multidisciplinary group of private companies located in Lugo (Galicia), in the North-West of Spain. ARZA group is the bridge which saves the gap between rural local areas and the different administrations. We offer a "full service concept" carried out by skilled workers (veterinarians, economists, lawyers and agricultural engineers) which covers the main needs of a farm.

Our main activities are:

- Construction projects, viability studies and environmental impact studies related to farming and agribusiness (1,850 projects).
- Development of a pioneer system for counselling and comprehensive management of farms.
- Development of innovative production techniques in the bovine, poultry and pig sectors.
- Training of more than 2,850 farmers to improve their marketing skills.
- Give advice on creation and improvement of farms and livestock (More than 4,800 farmers advised and more than € 17 million of EU funding achieved).
- Incorporation of young people into farming activities (780 people incorporated. € 1.5 million of EU funding achieved)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

- As a partner of the local government, management of EU agricultural grants (580 grants per year and more than € 6.5 million of EU funding achieved)
- Collaboration with the local government in the framework of a project (funded by the Structural Funds) that aims to support traditional farms in their transition process towards organic farming and help them with their marketing strategies.
- Long-lasting collaboration with the local government on a programme for giving advice on environmentally friendly practices (€ 9.15 million of EU funding achieved).
- Collaboration with the Spanish Ministry of Labour in the Strategy for Entrepreneurship and Youth Employment 2013/2016.

Expertise offered (related to the topic)

In our 20 years of professional experience we have contributed to the improvement and innovation of the agriculture sector under the concept of “multi-actor approach”. This sector represents 13% of our regional economy. Our aim is to improve the connection between the research and productive sector to facilitate the transfer of knowledge in order to obtain practical and applicable results.

One of our potential is how we can work with a very heterogeneous group of clients: from the intensive farmers without land to other farmers who work in the mountain areas where agricultural employment represents over 60% of the population and there is a 96% of the land included in “Natura 2000” as a protected areas.

It is necessary to talk about our agricultural advisory work, particularly in the area of the social innovation, and in the coordination of the productivity with sustainability.

In our long experience as a link between the production sector, the research sector and public administrations, we have worked on the development of proposals to improve the connection between these sectors, based on the following principles:

- The production sector must adapt to the regulation of the grants focused to the improvements, for example in relation to the environment.
- The research sector must adapt to the real needs of producers and receive the grants in terms of the results obtained.
- Public authorities should, in addition to enforcing the rules, be nimble, efficient and end the current onerous regulation.

Previous FP experience

Role in the project

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; Training; Tech. Development; Dissemination; Demonstration;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-8-2014: Towards and innovative and expensible Bioeconomy. B [2014] Bridging research and innovation efforts for a sustainable bioeconomy



RESEARCH GROUP: "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPPMENT" (AGR134)

R&D Institution

*PROFILE from Spain
(14ES0334)*

TOPIC OF INTEREST

TOPIC

ISIB-8-2014: Towards and innovative and expensible Bioeconomy. B [2014] Bridging research and innovation efforts for a sustainable bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

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- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

“Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación” (RZ00-00-017).

“Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción” (RZ04-00-013).

“Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible” (RZ-02-007)
PROGRAMA PILOTO INTEGRAL DE LA CALIDAD DE VACUNO EXTENSIVO DEL LITORAL DE LA JANDA.

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Presupuesto de ejecución: 100.000 euros. Asociación de Desarrollo Rural del Litoral de la Janda..
Vejer de la Frontera Cádiz

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:"
(RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y
ecotipos" (RZ2004-00010-00-00.

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de
carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico
y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como
instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos
de ovino lechero" (RZ2008-00021-00-00). We have taken part in several cooperation projects (PCI-
AECID) in North Morocco about DANGR Conservation and Rural Development:

The research group has collaborated in the characterization of races of ruminants of Latin America
(Araucanian sheep from Chile, Creole goat from Puebla and Chiapas(Mexico), Casanare Creole
cattle from Colombia, etc.: "Estudio Integral del Sistema Agropecuario de Santiago el Pinar, Chiapas
(código 06/IES/SNV/026/08)". Universty of Chiapas (SIINV-UNACH 2008). PROYECTOS DE LA AECID
:" ENCUENTRO PARA LA COOPERACIÓN CONJUNTA EN EL MEJORAMIENTO DE LOS SISTEMAS DE
PRODUCCIÓN PECUARIA PROMOVIDOS POR MUJERES EN EL ÁMBITO DEL DESARROLLO RURAL" en
la región de Chiapas (México) "PRODUCCIÓN GANADERA SOSTENIBLE EN CONDICIONES
TROPICALES Instituto de Investigaciones Agropecuarias Jorge Dimitrov y Estación de
Investigaciones de pastos y forrajes de la provincia de Granma". Cuba. 1998.
"Marca de Calidad Integral para los productos agrarios del Norte de Marruecos". Agencia Andaluza
de Cooperación Internacional. 300.000 euros. 2008.

Research on different areas on Quality of Mental health care.

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources
have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous
races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.

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- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Previous FP experience

EC-GA N°261459. Research on Financing systems' Effect on the Quality of Mental health care (REFINEMENT). VII Framework Programme . 2011-2013.

INTERREG III-C sud PASTOME1. Object: Knowledge of livestock labours in Mediterranean Region (Greece, Italy, France, Spain and Portugal).

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-9-2014: Supporting National Contact Points for Horizon 2020 Societal Challenge 2 on 'Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy' and the Key Enabling Technology (KET) 'Biotechnology'



NANOIMMUNOTECH

SME

*PROFILE from SPAIN
(14ES0257)*

TOPIC OF INTEREST

TOPIC

ISIB-9-2014: Supporting National Contact Points for Horizon 2020 Societal Challenge 2 on 'Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy' and the Key Enabling Technology (KET) 'Biotechnology'

ORGANIZATION EXPERTISE

ENTITY PROFILE

NANOIMMUNOTECH is the first European company specialized in the Bioconjugation/Functionalization, Biological (in vitro & in vivo) and Physico-chemical characterization of nanosystems. Our main area of activity is focused on biomedical, pharmaceutical and biotechnological companies, cosmetic, veterinary and agrofood market and research groups interested in the use of nanostructures with potential biotechnological applications. NANOIMMUNOTECH main objective is to become a world leader in Functionalization and Characterization of nanometric systems, offering products and services within the Biotechnology and Health sectors. The company has highly qualified and internationally recognized human resources, state-of-the-art laboratory capabilities, standardized protocols and finally, the know how to perform proper supervision, advice and validation of different nanosystems, as a first step to the previous use of nanoparticles in biotechnological applications.

Expertise offered (related to the topic)

Nanoimmunotech wants to revolutionise biosensing and offers two disruptive transducer technologies that have been designed using Nanotechnology, achieving very low detection limits,

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

using very different types of analytes for multiple industries (human or animal diagnosis, agrofood, natural environment contaminants detection, etc.). These technologies have been successfully tested already, with great results for example while detecting Carcinoembryonic antigen (CEA) (human health diagnosis) or detecting Salmonella (food industry), among others.

Previous FP experience

We are already involved in an European project, offering our NITBIOSAFE services in the development of nanotherapeutics for antibiotic resistant. We are also involved in multiple national collaborative projects related to: (1) nanoparticles for drug delivery by magnetic resonance, (2) development of a vaccine against recurrent cystitis, (3) development of a new industrial nanotechnology for obtaining porcine products, (4) biosensing of drugs in water.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-10-2014: Networking of Bioeconomy relevant ERA-NETs



CEIA3 AGRIFOOD CAMPUS OF INTERNATIONAL EXCELLENCE

R&D Institution

*PROFILE from Spain
(14ES0341)*

TOPIC OF INTEREST

TOPIC

ISIB-10-2014: Networking of Bioeconomy relevant ERA-NETs

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ceiA3, Agrifood Campus of International Excellence, is the largest Spanish center for research & specialized development. It is made up by the Universities of Almeria, Cadiz, Cordoba, Huelva and Jaen, and headed by the University of Cordoba, the National Scientific Research Council (CSIC), the Institute for Agricultural and Fisheries Development of Andalusia (IFAPA), and it has also achieved close cooperation with technology parks and a growing number of companies with innovative objectives.

The ceiA3 advances towards the future fully oriented to EU innovation policies based on the European H2020 strategy, on the EIP of Productive and Sustainable Agriculture, and also on the new challenges of the Common Agricultural Policy, whose strategy appears clearly defined towards the bioeconomy and sustainable agriculture.

Currently, ceiA3 has 285 research groups specialized in agriculture and the agrifood industry, with a human potential of over 4,000 people, divided into 16 thematic lines according to their affinity, from which 141 groups emerge with their own light, meeting excellence and scientific production criteria. They comprise 7 research clusters covering strategic areas of knowledge. Since 2009, the number of ceiA3 projects in International Research & Development Programmes totals 267, with a 237% increase in the last year.

We promote the achievement of agreements with private companies and participation in open calls for public institutions, both national (INIA, Andalusia, MECD, etc.) and European (FP7, Horizon 2020,

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etc.), through which we aspire to ensure the future viability of this project, making it possible to continue our work without necessarily depending on funding through the CEI program calls.

These main lines of research and activity are:

- Biodiversity and the Environment
- Bioenergy
- Integrative Biology
- Food Quality and Safety
- Sustainable Territorial, Rural y Tourism Development
- Agricultural Economics, Policy and Law
- Soil Erosion, Conservation and Fertility
- Rural and Agrifood Engineering
- Plant Breeding and Health
- Animal Breeding and Health
- Nutrition and Health
- Chemistry and Agrifoods
- Water Resources
- Food Technology and Oenology
- Agricultural and Environmental Technologies
- Information Technologies and Biocomputing

Expertise offered (related to the topic)

University excellence requires, on one hand, the attraction and consolidation of talent and, on the other, collaboration with generators of knowledge that complement the university's training and research. For this purpose we are continually working towards the development of bilateral cooperation with international institutions in the Agrifood sector. For years we have collaborated, in teaching and research, with universities of excellence in Agribusiness, like those of California-Davis (U.S.), Concepción (Chile), Técnica de Lisboa (Portugal), Montpellier 2 (France), Wageningen (Netherlands), among others. Likewise, we are finalizing agreements such as possible exchanges between professors, establishing scholarships, or postgraduate programs and other opportunities for

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collaboration, between the Inter-American Institute for Cooperation on Agriculture (IICA) and the ceiA3.

Agreements were also established with the INNOVAGRO Network in Latin America, with institutions for the development of the agrifood sector, with active participation in forums and definition of future strategies for collaboration. We have established projects involving not only participation in platforms linked to the agrifood sector, such as Food for Life, sustainable agriculture or Triptolemos platform, but also collaboration agreements with multiple major institutions, such as the Spanish Ministry of Agriculture, or Agropolis. Also, agreements with the Ministry of Agriculture and Environment of the Junta de Andalucía (Andalusian Government), the CIBERObn Institute, the FAO of the United Nations, the Spanish Agency for the Defense of the Competence and Parque Sur Uruguay, among others.

We partner with national companies, and different types of institutions (national and regional government institutions, Rural Development Groups, or D.O's, for example) seeking collaboration and knowledge transfer, but also the creation of university-industry synergies that allow us to look to Europe for the capture of funds, to encourage business development through research, enabling us to meet the sector's challenges and also to contribute to the European Research Area, with special focus in an area as important as Bioeconomy.

As an example of our potential, a brief description of our Partnerships with Andalusian Rural Development Groups (RDGs) in the field of food and agriculture:

In light of the ceiA3's vocation to establish alliances with its environment, and its social commitment to this environment, it has established an agreement with Rural Development groups (RDG) of the autonomous community of Andalusia, for collaboration in the field of food and agriculture.

The importance of these agreements is based on the proximity of the RDG's to the agrifood research groups of the Andalusian regions, who capture and transfer the concrete needs of the sector, and those to which ceiA3 offers solutions directly, within the measure of its possibilities.

The RDGs linked to ceiA3 will encourage, on the one hand, the arrival and dissemination of knowledge and results, and on the other, will be a communication channel created for this purpose, to allow the demands and needs of employers and sectors to reach the University, especially those of small and medium companies. The Rural Development Group thus becomes a ceiA3 communication element, primarily for its proximity to companies and sectors and their perspective on the development of the territory. During the year 2013, we intensified custom contacts between ceiA3 technical staff and the RDG directors, to pursue joint projects.

Previous FP experience

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With the RDG Campiña Sur Cordobesa (Montilla, Cordoba):

- Project for enhanced use of Aloe Vera
- Functional design of A3openlink Platform (application stage)
- Waste management in table-olive dressing industry (application stage)

With the GDR for the Development of Guadajoz y Campiña Este de Córdoba (Adegua):

- Analytical platforms in metabolomics / proteomics and use of agri-food waste (pending approval)
- Truffle in the olive grove (pending approval)
- Improving the quality of olive oil by a biological method of controlling the olive fly (in progress).

With the Junta de Andalucía, Agency for Protection of Competition:

- "DEVELOPMENT OF A DATABASE QUALITY AGRIFOOD PRODUCTS" (34/2012) (in progress).

OTHER PROJECTS: please note these are EXAMPLES, as the complete list includes 267+ ceiA3 international projects since 2009

- Robot fleets for highly effective agriculture and forestry management" RHEA.: FP7-NMP-2009-LARGE-3, (NMP: Nanosciences, Nanotechnologies, Materials and New Production Technologies), FP7-245986 Duration 2010-2014 Resp Francisca López-Granados AGR-124
- Assessing the multiple impacts of the Common Agricultural Policies (CAP) on Rural Economics FP7-SSH-2007-1Grant Agreement Preparation Forms (UE) CAP-IRE FPVII. Duration, 2007- 2010 Resp. Julio Berbel Vecino AGR-110
- Cost Action "Feed For Health" (Fa0802). FP7-UE Duration 2008-2012 Representante COST (España), Ana Garrido Varo AGR-128
- Food and feed Laboratory of Varied and Outstanding Research in Estonia (FLAVOURE). FP7-UE "Research Potential" FP7-REGPOT-2008-1. Spanish National Research Council (CSIC). Duration 2009-2011 AGR-136
- Legume-supported cropping systems for Europe" (FP7-KBBE-2009-3 Legume Futures). VII FP-UE AGR-140
- EUBERRY: The sustainable improvement of European berry production, quality and nutritional value in a changing environment: Strawberries, Currants, Blackberries, Blueberries and Raspberries. FP7-UE AGR-236

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- Agricultura Sostenible en la Aritmética del Carbono (LIFE08 ENV/E/000129-AGRICARBON). FP7-UE Duration 2010 - 2014 Resp. Rafaela Ordóñez Fernández. AGR-244
- Genomics-Based Investigations in Orobanchae-Host Interactions FP7-PEOPLE-2009-IOF Project number 252538, Marie Curie Actions—International Outgoing Fellowships (IOF), Participantes: CSIC & Vtech (USA) Duration 2010-2013 Coord. Diego Rubiales AGR-253
- Signalling circuitry controlling fungal virulence: identification and characterization of conserved and specific fungal virulence genes as common antifungal targets (ARIADNE) FP7-PEOPLE-ITN-237936 (Marie Curie Initial Training Networks) Duration 2009-2013 Resp. A. Di Pietro BIO-138
- SUSTOIL FP7-213637.-Developing Advanced Biorrefinery Schemes For Integation Into Existing Oil. Production/Transesterification Plants. Resp. Diego Luna Martínez FQM-162
- European Phosphorus Sciences Network (PhosSciNet). Acción COST CM0802 FP7-UE Resp. Antonio Manuel Romerosa Nievas. Duration: 2008 - 2013 FQM-317
- Mechanisms Underlying Coping Strategies and Welfare In Farmed Salmon, Sea Bass and Sea Bream. FP7-KBBE. Duration 2010-2014 Resp. José Antonio Muñoz Cueto RNM-216
- Meeting the challenges of the farm of tomorrow by integrating farm management information systems to support real-time management decisions and compliance to standards - futurefarm FP7-KBBE-2007 Resp. Jose Luis Guzmán Sánchez. TEP -197
- EADGENE. European Animal Disease Genomics Research Group for Animal Health and Food Safety. FP7 KBBE.2010.4-01. Duration, 2011 -2013 Resp. Juan José Garrido Pavón AGR-231
- Sustainable Organic and Low-input Dairying (SOLID). Proyecto Europeo FP7-KBB2-2010-4-266267 (FP7) Duration, 2011-2016 Resp. Nigel Scollan AGR-171
- Technological platform to develop nutritional additives to reduce methane emissions from ruminants. FP7-SME-2010-1-262270 (FP7) Duration, 2010-2012 Resp. David R. Yáñez Ruiz AGR-171

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-12-2015: Public-Private Partnerships in the Bioeconomy



CEIA3 AGRIFOOD CAMPUS OF INTERNATIONAL EXCELLENCE

R&D Institution

*PROFILE from Spain
(14ES0272)*

TOPIC OF INTEREST

TOPIC

ISIB-12-2015: Public-private partnerships in the Bioeconomy

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ceiA3, Agrifood Campus of International Excellence, is the largest Spanish center for research & specialized development. It is made up by the Universities of Almeria, Cadiz, Cordoba, Huelva and Jaen, and headed by the University of Cordoba, the National Scientific Research Council (CSIC), the Institute for Agricultural and Fisheries Development of Andalusia (IFAPA), and it has also achieved close cooperation with technology parks and a growing number of companies with innovative objectives.

The ceiA3 advances towards the future fully oriented to EU innovation policies based on the European H2020 strategy, on the EIP of Productive and Sustainable Agriculture, and also on the new challenges of the Common Agricultural Policy, whose strategy appears clearly defined towards the bioeconomy and sustainable agriculture.

Currently, ceiA3 has 285 research groups specialized in agriculture and the agrifood industry, with a human potential of over 4,000 people, divided into 16 thematic lines according to their affinity, from which 141 groups emerge with their own light, meeting excellence and scientific production criteria. They comprise 7 research clusters covering strategic areas of knowledge. Since 2009, the number of ceiA3 projects in International Research & Development Programmes totals 267, with a 237% increase in the last year.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

We promote the achievement of agreements with private companies and participation in open calls for public institutions, both national (INIA, Andalusia, MECD, etc.) and European (FP7, Horizon 2020, etc.), through which we aspire to ensure the future viability of this project, making it possible to continue our work without necessarily depending on funding through the CEI program calls.

These main lines of research and activity are:

- Biodiversity and the Environment
- Bioenergy
- Integrative Biology
- Food Quality and Safety
- Sustainable Territorial, Rural y Tourism Development
- Agricultural Economics, Policy and Law
- Soil Erosion, Conservation and Fertility
- Rural and Agrifood Engineering
- Plant Breeding and Health
- Animal Breeding and Health
- Nutrition and Health
- Chemistry and Agrifoods
- Water Resources
- Food Technology and Oenology
- Agricultural and Environmental Technologies
- Information Technologies and Biocomputing

Expertise offered (related to the topic)

University excellence requires, on one hand, the attraction and consolidation of talent and, on the other, collaboration with generators of knowledge that complement the university's training and research. For this purpose we are continually working towards the development of bilateral cooperation with international institutions in the Agrifood sector. For years we have collaborated, in teaching and research, with universities of excellence in Agribusiness, like those of California-Davis (U.S.), Concepción (Chile), Técnica de Lisboa (Portugal), Montpellier 2 (France), Wageningen (Netherlands), among others. Likewise, we are finalizing agreements such as possible exchanges

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 	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

between professors, establishing scholarships, or postgraduate programs and other opportunities for collaboration, between the Inter-American Institute for Cooperation on Agriculture (IICA) and the ceiA3.

Agreements were also established with the INNOVAGRO Network in Latin America, with institutions for the development of the agrifood sector, with active participation in forums and definition of future strategies for collaboration. We have established projects involving not only participation in platforms linked to the agrifood sector, such as Food for Life, sustainable agriculture or Triptolemos platform, but also collaboration agreements with multiple major institutions, such as the Spanish Ministry of Agriculture, or Agropolis. Also, agreements with the Ministry of Agriculture and Environment of the Junta de Andalucía (Andalusian Government), the CIBERObn Institute, the FAO of the United Nations, the Spanish Agency for the Defense of the Competence and Parque Sur Uruguay, among others.

We partner with national companies, and different types of institutions (national and regional government institutions, Rural Development Groups, or D.O's, for example) seeking collaboration and knowledge transfer, but also the creation of university-industry synergies that allow us to look to Europe for the capture of funds, to encourage business development through research, enabling us to meet the sector's challenges.

As an example of our potential, a brief description of our Partnerships with Andalusian Rural Development Groups (RDGs) in the field of food and agriculture:

In light of the ceiA3's vocation to establish alliances with its environment, and its social commitment to this environment, it has established an agreement with Rural Development groups (RDG) of the autonomous community of Andalusia, for collaboration in the field of food and agriculture.

The importance of these agreements is based on the proximity of the RDG's to the agrifood research groups of the Andalusian regions, who capture and transfer the concrete needs of the sector, and those to which ceiA3 offers solutions directly, within the measure of its possibilities.

The RDGs linked to ceiA3 will encourage, on the one hand, the arrival and dissemination of knowledge and results, and on the other, will be a communication channel created for this purpose, to allow the demands and needs of employers and sectors to reach the University, especially those of small and medium companies. The Rural Development Group thus becomes a ceiA3 communication element, primarily for its proximity to companies and sectors and their perspective on the development of the territory. During the year 2013, we intensified custom contacts between ceiA3 technical staff and the RDG directors, to pursue joint projects.

Previous FP experience

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- Project for enhanced use of Aloe Vera
- Functional design of A3openlink Platform (application stage)
- Waste management in table-olive dressing industry (application stage)

With the GDR for the Development of Guadajoz y Campiña Este de Córdoba (Adegua):

- Analytical platforms in metabolomics / proteomics and use of agri-food waste (pending approval)
- Truffle in the olive grove (pending approval)
- Improving the quality of olive oil by a biological method of controlling the olive fly (in progress).

With the Junta de Andalucía, Agency for Protection of Competition:

- "DEVELOPMENT OF A DATABASE QUALITY AGRIFOOD PRODUCTS" (34/2012) (in progress).

OTHER PROJECTS RELATED TO BIOECONOMY: please note these are EXAMPLES, as the complete list includes 267+ ceiA3 international projects since 2009

Assessing the multiple impacts of the Common Agricultural Policies (CAP) on Rural Economics FP7-SSH-2007-1 Grant Agreement Preparation Forms (UE) CAP-IRE FPVII. Duration, 2007- 2010 Resp. Julio Berbel Vecino AGR-110

- Robot fleets for highly effective agriculture and forestry management" RHEA.: FP7-NMP-2009-LARGE-3, (NMP: Nanosciences, Nanotechnologies, Materials and New Production Technologies), FP7-245986 Duration 2010-2014 Resp Francisca López-Granados AGR-124

- Cost Action "Feed For Health" (Fa0802). FP7-UE Duration 2008-2012 Representante COST (España), Ana Garrido Varo AGR-128

- Food and feed Laboratory of Varied and Outstanding Research in Estonia (FLAVOURE). FP7-UE "Research Potential" FP7-REGPOT-2008-1. Spanish National Research Council (CSIC). Duration 2009-2011 AGR-136

- Legume-supported cropping systems for Europe" (FP7-KBBE-2009-3 Legume Futures). VII FP-UE AGR-140

- EUBERRY: The sustainable improvement of European berry production, quality and nutritional value in a changing environment: Strawberries, Currants, Blackberries, Blueberries and Raspberries. FP7-UE AGR-236

- Agricultura Sostenible en la Aritmética del Carbono (LIFE08 ENV/E/000129-AGRICARBON). FP7-UE Duration 2010 - 2014 Resp. Rafaela Ordóñez Fernández. AGR-244

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- Genomics-Based Investigations in Orobanche-Host Interactions FP7-PEOPLE-2009-IOF Project number 252538, Marie Curie Actions—International Outgoing Fellowships (IOF), Participantes: CSIC & Vtech (USA) Duration 2010-2013 Coord. Diego Rubiales AGR-253
- Signalling circuitry controlling fungal virulence: identification and characterization of conserved and specific fungal virulence genes as common antifungal targets (ARIADNE) FP7-PEOPLE-ITN-237936 (Marie Curie Initial Training Networks) Duration 2009-2013 Resp. A. Di Pietro BIO-138
- SUSTOIL FP7-213637.-Developing Advanced Biorrefinery Schemes For Integration Into Existing Oil. Production/Transesterification Plants. Resp. Diego Luna Martínez FQM-162
- European Phosphorus Sciences Network (PhosSciNet). Acción COST CM0802 FP7-UE Resp. Antonio Manuel Romerosa Nievas. Duration: 2008 - 2013 FQM-317
- Mechanisms Underlying Coping Strategies and Welfare In Farmed Salmon, Sea Bass and Sea Bream. FP7-KBBE. Duration 2010-2014 Resp. José Antonio Muñoz Cueto RNM-216
- Meeting the challenges of the farm of tomorrow by integrating farm management information systems to support real-time management decisions and compliance to standards - futurefarm FP7-KBBE-2007 Resp. Jose Luis Guzmán Sánchez. TEP -197
- EADGENE. European Animal Disease Genomics Research Group for Animal Health and Food Safety. FP7 KBBE.2010.4-01. Duration, 2011 -2013 Resp. Juan José Garrido Pavón AGR-231
- Sustainable Organic and Low-input Dairying (SOLID). Proyecto Europeo FP7-KBB2-2010-4-266267 (FP7) Duration, 2011-2016 Resp. Nigel Scollan AGR-171
- Technological platform to develop nutritional additives to reduce methane emissions from ruminants. FP7-SME-2010-1-262270 (FP7) Duration, 2010-2012 Resp. David R. Yáñez Ruiz AGR-171

Role in the project

Research; Training; Tech. Development; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/Max Planck, 3. Edificio Iris 1

Postcode: 41092

City: Sevilla

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Country: Spain

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. A [2014] sustainable and resilient agriculture for and non food system



RESEARCH GROUP: "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPPMENT" (AGR134)

R&D Institution

*PROFILE from Spain
(14ES0332)*

TOPIC OF INTEREST

TOPIC

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. A [2014] sustainable and resilient agriculture for and non food system

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

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- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

“Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación” (RZ00-00-017).

“Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción” (RZ04-00-013).

“Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible” (RZ-02-007)
PROGRAMA PILOTO INTEGRAL DE LA CALIDAD DE VACUNO EXTENSIVO DEL LITORAL DE LA JANDA.

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Presupuesto de ejecución: 100.000 euros. Asociación de Desarrollo Rural del Litoral de la Janda..
Vejer de la Frontera Cádiz

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:"
(RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y ecotipos" (RZ2004-00010-00-00).

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos de ovino lechero" (RZ2008-00021-00-00) We have taken part in several cooperation projects (PCI- AECID) in North Morocco about DANGR Conservation and Rural Developement:

The research group has collaborated in the characterization of races of ruminants of Latin America (Araucanian sheep from Chile, Creole goat from Puebla and Chiapas (Mexico), Casanare Creole cattle from Colombia, etc.: "Estudio Integral del Sistema Agropecuario de Santiago el Pinar, Chiapas (código 06/IES/SNV/026/08)". Universty of Chiapas (SIINV-UNACH 2008) PROYECTOS DE LA AECID:" ENCUESTRO PARA LA COOPERACIÓN CONJUNTA EN EL MEJORAMIENTO DE LOS SISTEMAS DE PRODUCCIÓN PECUARIA PROMOVIDOS POR MUJERES EN EL ÁMBITO DEL DESARROLLO RURAL" en la región de Chiapas (México) "PRODUCCIÓN GANADERA SOSTENIBLE EN CONDICIONES TROPICALES Instituto de Investigaciones Agropecuarias Jorge Dimitrov y Estación de Investigaciones de pastos y forrajes de la provincia de Granma". Cuba. 1998. "Marca de Calidad Integral para los productos agrarios del Norte de Marruecos". Agencia Andaluza de Cooperación Internacional. 300.000 euros. 2008.

Research on different areas on Quality of Mental health care.

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.

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- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Previous FP experience

EC-GA N°261459. Research on Financing systems' Effect on the Quality of Mental health care (REFINEMENT).VII Framework Programme 2011-2013.

INTERREG III-C sud PASTOME1. Object: Knowledge of livestock labours in Mediterranean Region(Greece, Italy, France, Spain and Portugal).

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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City: Sevilla

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. D [2015] Sustainable crop production



RESEARCH TEAM AGR 134 "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPPMENT"

R&D Institution

*PROFILE from Spain
(14ES0335)*

TOPIC OF INTEREST

TOPIC

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. D [2015] Sustainable crop production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.

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- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

"Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación" (RZ00-00-017).

"Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción" (RZ04-00-013).

"Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible" (RZ-02-007)

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:" (RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y ecotipos" (RZ2004-00010-00-00).

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos de ovino lechero" (RZ2008-00021-00-00)

Also, we have taken part in several cooperation projects (PCI- AECID) in North Morocco about DAnGR Conservation and Rural Developement:

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The research group has collaborated in the characterization of races of ruminants of Latin America (Araucanian sheep from Chile, Creole goat from Puebla(México), Casanare Creole cattle from Colombia, etc)

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. E [2015] Sustainable livestock production



RESEARCH TEAM AGR 134 "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPMENT"

R&D Institution

PROFILE from Spain
(14ES0333)

TOPIC OF INTEREST

TOPIC

ISIB-12-2014/2015: Public-public partnerships in the bioeconomy. E [2015] Sustainable livestock production

ORGANIZATION EXPERTISE

ENTITY PROFILE

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government.

The research team is composed of subject matter experts and veterinaries from several public institutions and private enterprises, such as:

- The University of Córdoba.
- FEAGAS (Federation of Farmers' Unions)
- The Loyola University.
- Fish and Agriculture Council from Andalusian and other Regional Governments.
- IDTACA, Ltd.

The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

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- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Relevant R&D projects:

We have taken part in several projects support by FEDER grants(National Plan of I+D+i). Program and Strategic Action from INIA: Conservation of Genetic Resources of Food-processing Interest

“Caracterización y evaluación de las razas bovinas Berrendas. Diseño y gestión de los planes de conservación” (RZ00-00-017).

“Identificación del estado de conservación y planes de recuperación de las razas bovinas andaluzas en peligro de extinción” (RZ04-00-013).

“Caracterización Socioeconómica, productiva y genética de la raza Bovina Pajuna. Bases para el desarrollo de estrategias para su preservación, conservación y desarrollo sostenible” (RZ-02-007)
PROGRAMA PILOTO INTEGRAL DE LA CALIDAD DE VACUNO EXTENSIVO DEL LITORAL DE LA JANDA.

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Presupuesto de ejecución: 100.000 euros. Asociación de Desarrollo Rural del Litoral de la Janda..
Vejer de la Frontera Cádiz

"Caracterización y evaluación de razas caprinas autóctonas españolas de orientación cárnica:"
(RZ01-010-C3-1)

"Geografía del caprino español en riesgo de extinción. Caracterización de razas, agrupaciones y
ecotipos" (RZ2004-00010-00-00).

"Caracterización Fenotípica De La Agrupación Caprina De Las Mesetas" (RZ2008-00021-00-00)

"Estudio de la repercusión del bienestar animal en el sistema de producción del ganado caprino de
carne en las razas Blanca Celtibérica, Negra Serrana-Castiza y Blanca Andaluza. Análisis económico
y de la calidad del producto". (RZ2004-00010-00-00)

"Evaluación de la calidad higiénico-sanitaria y tecnológica de la leche de raza Manchega como
instrumento para la mejora de la viabilidad socio-económica y ambiental de los sistemas productivos
de ovino lechero" (RZ2008-00021-00-00). We have taken part in several cooperation projects (PCI-
AECID) in North Morocco about DAnGR Conservation and Rural Development:

The research group has collaborated in the characterization of races of ruminants of Latin America
(Araucanian sheep from Chile, Creole goat from Puebla and Chiapas(Mexico), Casanare Creole
cattle from Colombia, etc.): "Estudio Integral del Sistema Agropecuario de Santiago el Pinar, Chiapas
(código 06/IES/SNV/026/08)". Universty of Chiapas (SIINV-UNACH 2008). PROYECTOS DE LA AECID
:" ENCUENTRO PARA LA COOPERACIÓN CONJUNTA EN EL MEJORAMIENTO DE LOS SISTEMAS DE
PRODUCCIÓN PECUARIA PROMOVIDOS POR MUJERES EN EL ÁMBITO DEL DESARROLLO RURAL" en
la región de Chiapas (México) "PRODUCCIÓN GANADERA SOSTENIBLE EN CONDICIONES
TROPICALES Instituto de Investigaciones Agropecuarias Jorge Dimitrov y Estación de
Investigaciones de pastos y forrajes de la provincia de Granma". Cuba. 1998.
"Marca de Calidad Integral para los productos agrarios del Norte de Marruecos". Agencia Andaluza
de Cooperación Internacional. 300.000 euros. 2008.

Research on different areas on Quality of Mental health care.

Expertise offered (related to the topic)

The research studies within the sphere of the characterization and preservation of genetic resources
have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous
races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.

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- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Some innovative methodologies set in place by the group are:

- Optimization of Phenotypic Characterization methods in the broader sense, including animals, environment and production systems.
- Genetic Variability Analysis using molecular markers.
- Phylogenetic studies.
- Identification of genetic markers of special interest for production or adaptation processes.
- Ethological studies of autochthonous races and their interaction with the environment, considering individual behavioural patterns.
- Social-Economic Analysis of livestock resources and DAnGR (Domestic animals Genetic Resources) optimization.
- Characterization of the quality of final products (meat, milk, wool, etc).

Previous FP experience

EC-GA N°261459. Research on Financing systems' Effect on the Quality of Mental health care (REFINEMENT). VII Framework Programme. 2011-2013.

INTERREG III-C sud PASTOME1. Object: Knowledge of livestock labours in Mediterranean Region (Greece, Italy, France, Spain and Portugal).

Role in the project

Research; Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

City: Sevilla

Country: Spain

■ ■ ■ 1051

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Contact person: Laura Valle

Telephone: +34 955007482

E-mail: laura.valle@juntadeandalucia.es

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

ISIB-12-2015: Public-Public Partnerships in the bioeconomy102

 **UNIVERSITY OF GASTRONOMIC SCIENCES/ SYSTEMIC FOOD DESIGN RESEARCH UNIT**

R&D Institution

*PROFILE from Italy
(14IT0304)*

TOPIC OF INTEREST

TOPIC

ISIB-12-2015: Public-Public Partnerships in the bioeconomy102

ORGANIZATION EXPERTISE

ENTITY PROFILE

The University of Gastronomic Sciences, founded in 2004 by the international non-profit Slow Food in cooperation with the Italian regions of Piedmont and Emilia-Romagna, is a ministerially recognized, private non-profit institution.

Its goal is to create an international research and education center for those working on renewing farming methods, protecting biodiversity, and building an organic relationship between gastronomy and agricultural science.

Relevant projects:

2010-2012 Poliedro , Pollenzo Index Environmental and Economics Design funded by Piedmont Region

2011-2013 Pollenzo's Index funded by Turin Commercial Chambre

2010-2012 People Interaction with Enhanced Multimodal Objects for a new territorial experience- Want-eat, funded by Piedmont Region

2012-2013 Systemic Food Design funded by Comieco

Expertise offered (related to the topic)

Systemic design according the principle of circular economy to optimise food production, processing, commercialisation systems

■ ■ ■ 1053

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Eco-Packaging (primary, secondary and tertiary)
 Interaction with smart objects (App, augmented reality, QR code, App, website, Innovative Social Network)
 Design of Eco-events

Previous FP experience

No previous experience

Role in the project

Research; Training; Tech. Development; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

City: Torino

Country: Italy

Contact person: Daniela Vismara

Telephone: 0039 011 5669239

Fax: 0039 011 5669238

E-mail: d.vismara@pie.camcom.it

■ ■ ■ 1054

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

LCE-11-2014/2015: Developing next generation technologies for biofuels and sustainable alternative fuels

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0258)*

TOPIC OF INTEREST

TOPIC

LCE-11-2014/2015: Developing next generation technologies for biofuels and sustainable alternative fuels

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The ILT.NRW - Institute for Food Technology.NRW carries out projects and holds competences in innovative 2G bioethanol pretreatment technologies as well as different lignocellulose biorefinery concepts containing the coupling of components as hydrothermal carbonization (HTC) and biogas.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

Contact person: Nora Anton

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Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

LCE-12-2014/2015: Demonstrating advanced biofuel technologies

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0259)*

TOPIC OF INTEREST

TOPIC

LCE-12-2014/2015: Demonstrating advanced biofuel technologies

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Institute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and development projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The ILT.NRW - Institute for Food Technology.NRW carries out projects and holds competences in innovative 2G bioethanol pretreatment technologies as well as different lignocellulose biorefinery concepts containing the coupling of components as hydrothermal carbonization (HTC) and biogas.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

City: Mülheim/Ruhr

Country: Germany

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Fax: 0049 (0) 208 30004 29

E-mail: na@zenit.de

■ ■ ■ 1058

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

LCE-13-2015: Partnering with Brazil on advanced biofuels

 **ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES**

R&D Institution

*PROFILE from Germany
(14DE0260)*

TOPIC OF INTEREST

TOPIC

LCE-13-2015: Partnering with Brazil on advanced biofuels

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Insitute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and develepment projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The ILT.NRW - Insitute for Food Technology.NRW carries out projects and holds competences in innovative 2Gbioethanol pretreatment technologies as well as different lignocellulose biorefinery concepts containing the coupling of components as hydrothermal carbonization (HTC) and biogas.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The insttitude participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

Role in the project

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

Address: Bismarckstr. 28

Postcode: 45470

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Country: Germany

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E-mail: na@zenit.de

■ ■ ■ 1060

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-2-2014: A system approach for the reduction, recycling and reuse of food waste.



FOOD PROCESSING INITIATIVE E.V.

SME

*PROFILE from Germany
(14DE0261)*

TOPIC OF INTEREST

TOPIC

WASTE-2-2014: A system approach for the reduction, recycling and reuse of food waste.

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food-Processing Initiative (FPI) e.V. (membership association) is the established networking organisation for food industry (i.e. producers, technology, ingredients, packaging, IT solutions) and research. FPI facilitates innovation in product, technology and knowledge, and opens up new markets. FPI is engaged in national and international innovation projects, delegations and matching events.

Expertise offered (related to the topic)

Creating Contacts – Pooling Potential – Opening Opportunities

FPI, founded in 2000, is an acknowledged network in the food sector. FPI supports food companies, in particular small and medium-sized enterprises (SME) on innovation, strategic alliances, market potentials and expansion. FPI fosters communication, provides information, establishes contacts across the food chains, initiates and supports all forms of co-operation and innovation projects, resource efficient processes in food production and dissemination and exploitation strategies, both national and international.

Previous FP experience

FPI e.V. has participated in several EU projects fostering innovation in the German food sector and promoting transfer of research results to the food industry. Project examples are the INTERREG projects FoodSpot, FoodFuture and FP7 project AgriFoodResults. FoodSpot is a collaborative

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

platform for cross-border innovation and cooperation in the food sector of the Netherlands, Flanders and North-Rhine Westphalia. AgriFoodResults provides useful tools for dissemination managers of food research projects, including a virtual supermarket which provides food SMEs an intuitive access to the results of past EU R&D projects.

Role in the project

Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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Country: Germany

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E-mail: na@zenit.de

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-2-2014: A system approach for the reduction, recycling and reuse of food waste.



ILT.NRW-INSTITUTE FOR FOOD TECHNOLOGY.NRW,
OSTWESTFALEN-LIPPE UNIVERSITY OF APPLIED
SCIENCES

R&D Institution

*PROFILE from Germany
(14DE0262)*

TOPIC OF INTEREST

TOPIC

WASTE-2-2014: A system approach for the reduction, recycling and reuse of food waste.

ORGANIZATION EXPERTISE

ENTITY PROFILE

The ILT.NRW - Insitute for Food Technology.NRW is part of the Ostwestfalen-Lippe University of Applied Sciences. The Institute aims at providing secure, healthy and low-cost foodstuffs through sustainable processes. The major fields of activity are meat technology, beverage technology, bakery technology, food chemistry, microbiology, process technology and food histology. By now, some 50 academic scientists are involved in research and develepmnt projects. Own capabilities for chemical, physical, microbiological, histological and sensory analysis are available.

Expertise offered (related to the topic)

The ILT.NRW - Insitute for Food Technology.NRW carries out projects and holds competences in innovative 2Gbioethanol pretreatment technologies as well as different lignocellulose biorefinery concepts containing the coupling of components as hydrothermal carbonization (HTC) and biogas.

Previous FP experience

The ILT.NRW - Institute for Food Technology.NRW is currently involved in a project in the frame of research for the benefit of SMEs on functional foods. The institute participates in a number of ongoing nationally-funded projects. The companies have good contacts to food SMEs, which can be contributed to future projects.

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 Business Support on Your Doorstep	 European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	 HORIZON 2020

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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Country: Germany

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■ ■ ■ 1064

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste



AGROTECH

Technological Centre

*PROFILE from Denmark
(14DK0295)*

TOPIC OF INTEREST

TOPIC

WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste

ORGANIZATION EXPERTISE

ENTITY PROFILE

AgroTech is a non-profit research and innovation institute working with technologies and innovation in resource efficiency for the agricultural sector and food sector. We participate in research, development and demonstration projects supported by public funds. Moreover, we deliver independent consultancy on commercial basis related to the development of new methods and technologies related to food losses and food waste. In our work we pay special attention to small and medium-sized companies but we cooperate with companies of any size and any nationality. Furthermore we help companies within the agricultural and food sector to reduce and utilize their food losses and waste by engaging in research and innovation projects and providing consultancy and innovation tools. We focus on reducing food waste and food losses in different stages of the food system; fruit and vegetable production, post harvest handling and storage, wholesale and large scale kitchens. We work in interdisciplinary teams consisting of competencies in social science, biology, business development, gastronomy agricultural and horticultural science. We are interested in participating in developing methodologies for evaluating food waste and food losses in relation to both large scale kitchens and production of fruit and vegetables in a close-to-market approach.

Expertise offered (related to the topic)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

AgroTech offers expert knowledge in technologies to reduce pollution caused by intensive livestock production systems. This includes expertise within development and demonstration of technologies for reduced emissions of ammonia, odour, and greenhouse gases from livestock production. In addition, AgroTech has experience within development and demonstration of technologies for improved handling of manure including biogas and gasification technologies. AgroTech also carries out test and environmental technology verification (ETV), which is an independent third party assessment of environmental technologies – e.g. cleaning of air from livestock buildings, sensor technologies, slurry additives, slurry separation, and biogas generation.

Previous FP experience

AgroTech was coordinator in a FP6-project called "AGROBIOGAS - An integrated approach for biogas production with agricultural waste". It was a 3-year Collective Research project with 24 partners from 10 European countries. Total budget amounted to 2.8 million EURO. In addition to AGROBIOGAS, AgroTech has experience from participation in EU projects under the Intelligent Energy Europe-programme and the Interreg-programme.

Role in the project

Research; Training; Tech. Development; Dissemination; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

Telephone: 4540309637

E-mail: as@agropark.dk

■ ■ ■ 1066

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste



RESEARCH GROUP: "FÍSICA DEL PLASMA: DIAGNOSIS, MODELO Y APLICACIONES" (FQM-136) UNIVERSITY OF CORDOBA

R&D Institution

*PROFILE from Spain
(14ES381)*

TOPIC OF INTEREST

TOPIC

WASTE-2-2014 A system approach for the reduction, recycling and reuse of food waste

ORGANIZATION EXPERTISE

ENTITY PROFILE

Our group has a long history of the study of the Plasma in its different aspects, from theoretical point of view as experimental. In the last years, we are working in the industrial application of this plasma, especially in the destruction of industrial waste. Result of this work is the development of different spanish patent to destruction of Volate Organics Compound and the design of a Chamber specially useful for waste destruction techniques. Also, we have stated to work in the application of plasma for the agriculture and livestock industries by development of technologies for remediation of pollutants delivered into the environment . Plasma treatment of samples from different scenarios (farms, industries...) enables us to know the capability of non thermal plasmas to destroy gases derived from these activities (greenhouse gases, ammoniac...).

This research was developed in the frame and support of the following National Projects:

1. FIS2009-11191. "Reactor de plasma de gran volumen basado en descargas de onda de superficie producidas en estructura coaxial". 72.600,00 € Antonio Gamero Rojas, 1-C
2. FIS2005-02840. "Descargas de microondas para aplicaciones en lámparas de iluminación". 104.720,00 €, Antonio Gamero Rojas, 2-C

■ ■ ■ 1067

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

3. CTQ2005-04974. "Desarrollo y optimización de métodos basados en plasmas de microondas para la destrucción y eliminación de compuestos bext y derivados". 77.350,00 €, Antonio Rodero Serrano, 1-C

4. PPQ2001-2537. "Destrucción y detección de residuos peligrosos mediante procesado con plasmas de alta frecuencia (radiofrecuencia y microondas)", 150.403,28 €, M. Carmen Quintero Ortega, 1-C

Expertise offered (related to the topic)

Our research group has extensive experience in different topics related with the plasma with helping to a successful development of Project inside the frame of this Programme:

- Spectroscopic diagnosis techniques
- Electromagnetic diagnosis techniques
- Collisional Radiative Models of Plasma.
- Kinetic Models of Plasma
- Gas chromatography
- Mass Chromatography
- Laser Induced Breakdown Spectroscopy
- Waste destruction by plasma
- Lighting by Plasma.

Previous FP experience

We have been involved in different national and international Project related to the Plasma studies and to the use of this device to industrial application.

Our group belongs to the research teams of the Agrifood Campus of International Excellence CEIA3, leds by the University of Cordoba.

Role in the project

Research; Tech. Development;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

■ ■ ■ 1068

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Address: Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

Contact person: Leonor Camacho Cascajo

Telephone: 00 34 955 00 74 45

Fax: 00 34 955 05 85 87

E-mail: leonor.camacho@juntadeandalucia.es

■ ■ ■ 1069

 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

 *FOOD PROCESSING INITIATIVE E.V.*

SME

*PROFILE from Germany
(14DE0263)*

TOPIC OF INTEREST

TOPIC

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Food-Processing Initiative (FPI) e.V. (membership association) is the established networking organisation for food industry (i.e. producers, technology, ingredients, packaging, IT solutions) and research. FPI facilitates innovation in product, technology and knowledge, and opens up new markets. FPI is engaged in national and international innovation projects, delegations and matching events.

Expertise offered (related to the topic)

Creating Contacts – Pooling Potential – Opening Opportunities

FPI, founded in 2000, is an acknowledged network in the food sector. FPI supports food companies, in particular small and medium-sized enterprises (SME) on innovation, strategic alliances, market potentials and expansion. FPI fosters communication, provides information, establishes contacts across the food chains, initiates and supports all forms of co-operation and innovation projects, resource efficient processes in food production and dissemination and exploitation strategies, both national and international.

Previous FP experience

FPI e.V. has participated in several EU projects fostering innovation in the German food sector and promoting transfer of research results to the food industry. Project examples are the INTERREG projects FoodSpot, FoodFuture and FP7 project AgriFoodResults. FoodSpod is a collaborative

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

platform for cross-border innovation and cooperation in the food sector of the Netherlands, Flanders and North-Rhine Westphalia. AgriFoodResults provides useful tools for dissemination managers of food research projects, including a virtual supermarket which provides food SMEs an intuitive access to the results of past EU R&D projects.

Role in the project

Training; Management; Dissemination; Other

Network partner contact for this profile (Enterprise Europe Network)

EEN node: NRW.Europa

Organisation name: ZENIT GmbH

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Country: Germany

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■ ■ ■ 1071

 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - FOOD, METABOLOMICS AND SENSORY SCIENCE**

R&D Institution

*PROFILE from Denmark
(14DK0264)*

TOPIC OF INTEREST

TOPIC

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Associate professor's research fields: Expertise with plant food quality and post-harvest physiology, biology and technology. The focus is on the impact of product, cultivar and growing history and the effect of applied technologies (e.g. cold storage, controlled and modified atmosphere storage, packaging and processing) on fruit and vegetable quality. The work includes isolation and quantification of primary and secondary metabolites like carbohydrates, organic acids, volatile and non-volatile compounds, polyacetylenes, carotenoids and chlorophylls and relations to sensory quality and non-destructive measurements.

Expertise offered (related to the topic)

Plant food quality; Raw material quality and processing and packaging technology to increase eco-innovative solutions in sustainable food processing. Understanding consumers perception of freshness and monitoring early changes in product quality and shelf-life using chemical, sensorial and non-destructive, on-line monitoring. Developing innovative tools (low boiling volatiles) to understand and minimize quality changes in the food chain. Developing and testing new technologies in cooperation with the industry. Having more than 20 years of work experiences with the industry at different points in the food chain (from gene to consumers).

Previous FP experience

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy`s Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Intervég - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research; Training; Tech. Development; Dissemination;

Network partner contact for this profile (Enterprise Europe Network)

■ ■ ■ 1073

 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

■ ■ ■ 1074

 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partnership Profile

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

 **AARHUS UNIVERSITY - DEPARTMENT OF FOOD SCIENCE - PLANT, FOOD & CLIMATE**

R&D Institution

*PROFILE from Denmark
(14DK0265)*

TOPIC OF INTEREST

TOPIC

WASTE-7-2015: Ensuring sustainable use of agriculture waste, co-products and by-products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Senior researcher: PhD. Plant Nutrition, science team leader of Plant, Food & Climate, FOOD Science, activities: sustainability, cover crops, competition from weed in organic berry production, waste, yield, irrigation, frost hardiness, chilling, quality, protected cultivation of food, including effect of light (and UV); Production in closed environment without daylight, light quality, LED light for improvement of chemical compounds in plant production, urban farming aspects

Expertise offered (related to the topic)

Methods to improve rooting and shoot growth of pot-plants (Hedera, Dipladenia, Stephanotis, Hibiscus) by hot-water treatment of the cuttings, focusing temperature and duration of treatment are developed. Application of dynamic controlled atmosphere (DCA) for improvement of post-harvest quality of strawberry and apples is investigated. Research in methods to grow plants in a closed system in multilayer is starting-up.

Previous FP experience

Department of Food Science:

FP5 - COLDTREE - The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings (Lead Partner: Wageningen University)

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

FP5 QLK5-CT-2001-70315 Broadtech (partner; lead partner: Italy's Agency for Environmental Protection and Technical Services, Nature Conservation)

FP6 - QACCP - Quality Analysis Critical Control Point (University of Kassel Lead Partner)

FP6 - QLIF - Quality Low Input Food - Milk

FP6 - QLIF - Quality Low Input Food - Fruit/apple (Partner)

FP6 - QLIF - Quality Low Input Food - Vegetables (University of Newcastle Lead Partner)

FP6 - Q-PorkChains - Improving the quality of pork and pork products for the consumer

FP6 - REPCO - Replacement of Copper fungicides in organic production of grapevine and apple in Europe

FP6 - ISAFRUIT - Increasing fruit consumption through a trans-disciplinary approach delivering high quality produce from environmentally friendly sustainable production practises (Lead Partner)

FP6 - ERA-IB - ERA-NOEL - Novel enzyme tools for production of functional oleochemicals from unsaturated lipids (Partner)

FP7 - REDNEX - Innovative and practical management approaches to reduce nitrogen excretion by ruminants

FP7 - N-TOOLBOX - effective strategies for on-farm reductions in N losses to water

FP7 - SME-2010-1 - Agrobiofilm - Development of enhanced biodegradable films for agricultural activities (Partner)

FP7 - EPPN - European Plant Phenotyping Network

FP7 - Interveg - Enhancing multifunctional benefits of cover crops - vegetables intercropping (Agricultural Research Council - research Centre for the soil-plant system - Rome Lead Partner)

Role in the project

Research;

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 enterprise europe network Business Support on Your Doorstep  AGROFOOD	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partnership Profile

WASTE-7-2015 Ensuring sustainable use of agricultural waste, co-products and by-products

 **AGROTECH**
Technological Centre
PROFILE from Denmark
(14DK0296)

TOPIC OF INTEREST

TOPIC

WASTE-7-2015 Ensuring sustainable use of agricultural waste, co-products and by-products

ORGANIZATION EXPERTISE

ENTITY PROFILE

AgroTech is a non-profit research and innovation institute working with technologies for the agricultural sector and food sector. We participate in research, development and demonstration projects supported by public funds. Moreover, we deliver independent test and documentation of new technologies and research-based consultancy on commercial basis related to the development of new technologies. In our work we pay special attention to small and medium-sized companies but we cooperate with companies of any size and any nationality. Sustainable production and use of biomass is one of five core fields of expertise in AgroTech.

Expertise offered (related to the topic)

AgroTech offers expert knowledge on various topics along the chain from biomass production, harvest, storage and use of different fractions of the biomass for food, feed, fertilizer, biomaterials and bioenergy. Activities concern experimental work, analysis of new and existing data, desk studies, elaboration of scenarios etc. as well as dissemination of knowledge to research communities, advisors, companies etc.

A specific interest is concerned with the production and use of agricultural residues and by-products such as straw, catch-crops, leaves from sugar beet, biomass from unutilized meadow areas etc. These types biomass may constitute a potential resource for biogas production without the risk of

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

competing with land for food and feed production. Also, via the residues from the biogas production, nutrients may be recycled and used as a fertilizer in crop production, and the undigested organic matter may contribute to maintain the pool of soil carbon.

Previous FP experience

AgroTech was coordinator in a FP6-project called "AGROBIOGAS - An integrated approach for biogas production with agricultural waste". It was a 3-year Collective Research project with 24 partners from 10 European countries. Total budget amounted to 2.8 million EURO. In addition to AGROBIOGAS, AgroTech has experience from participation in EU projects under the Intelligent Energy Europe-programme and the Interreg-programme.

Role in the project

Research; Training; Tech. Development; Management; Dissemination; Demonstration

Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

Telephone: 4540309637

E-mail: as@agropark.dk

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 	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partnership Profile

WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products

 *DEPARTMENT OF AGRICULTURAL, FORESTRY AND FOOD SCIENCE (DISAFA) - FOOD MICROBIOLOGY AND TECHNOLOGY SECTOR*

R&D Institution

*PROFILE from Italy
(14IT0305)*

TOPIC OF INTEREST

TOPIC

WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products

ORGANIZATION EXPERTISE

ENTITY PROFILE

Research activities in Food Microbiology and Technology Sector of DISAFA includes the entire food chain from field to fork, as well as the health-promoting properties of foods and food constituents.

The Food Sector possesses leading capabilities and resources, as well as active national and international networks, and is therefore able to make significant contributions to current food-related global challenges: food supply, food wastage, food quality, differentiation of foods, and novel, convenient and healthy foods. Most of the research is carried out in collaboration with industrial or research partners, and there is a significant focus on dissemination, development, demonstration and implementation of researches findings to the benefit of industry and society.

Expertise offered (related to the topic)

The science team performs research on food quality and changes in quality parameters related to processing, packaging and storage of foods, especially in relation to wines, dairy products, meat products and plant food products.

With this aim the science team employs chemical-physical (GC-MS, LC-MS ion trap, electronic nose, electronic tongue, texture analyzer) and microbiological (PCR, DGGE) methods to investigate the

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

different foods in order to understand the effect of metabolites on sensory and technological properties.

Also sensory analysis is used for describing and measuring food quality and a trained sensory panel is used to quantify sensory attributes within appearance, odor, taste and texture.

Previous FP experience

The Food Sector has work on WP5 (CRAFT Project) and on WP7 (PATHOGEN Combact Project)

Role in the project

Research; Dissemination

Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

City: Torino

Country: Italy

Contact person: Daniela Vismara

Telephone: 0039 011 5669239

Fax: 0039 011 5669238

E-mail: d.vismara@pie.camcom.it

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

Partner Search

Other organization (consulting, associations,...)



ACRUGA ASOCIACIÓN NACIONAL DE CRIADORES DE GANADO VACUNO SELECTO DE LA RAZA RUBIA GALLEGA

*PARTNER SEARCH from SPAIN
(14ES0395)*

ORGANIZATION

General activity

The "Asociación Nacional de Criadores de Ganado Vacuno Selecto de la raza Rubia Gallega" (ACRUGA), was founded in 1969 and is a non-profit entity registered in the Registry of the European Union of pure breeds, having as main objectives the defense, protection, selection, promotion and expansion of beef cattle Rubia Gallega breed in the EU and third countries.

Currently we are 2,500 families exploiting this kind of beef, with relatively few cattle (12 head in 2000), most of them with a medium size (28 heads in 2013), but in all cases with a similar management.

The objective of selecting the Rubia Gallega breed is to produce a raised calf by hand providing an attractive meat, nice pink color, juicy and tender, with a composition of muscle and balanced fat to provide a particularly delicious flavor, finding the love of something authentic, natural and healthy.

The most important lines of work of ACRUGA in recent years are related to the genetic evaluation of reproductive animals and estimation of genetic trend by forecasting, genotyping of breeding of stud book, research advocacy gene myostatin as an indicator of calving ease and in the study of the organoleptic characteristics of meat.

All these lines have been developed in collaboration with the University of Zaragoza and the University of Santiago de Compostela.

ACRUGA has promoted and assisted in the development of activities related to the sensory properties of the meat of the Rubia Gallega breed, mainly in properties which impact more

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directly to the consumer, such as visual factors (fat, muscle color, fat color) and gustatory (taste, flavor, juiciness, tenderness and succulence), because these represent the organoleptic qualities of a quality product such as meat.

Organization size: 10-49

PROJECT

TITLE: Production natural beef meat with differential new, quality health and enriched omega 3 fatty acids and antioxidants

Acronym: CRGF1

Outline of the project idea

Our project represents a commitment to the future and with the idea of developing meats with healthy nutrition and a differentiated quality through the system of feeding and management, thanks to our previous experience for developing projects in other sectors such as the dairy. These products will be achieved through purely natural methods, without technological changes, with local products that provide competitive advantages to livestock agro sector involved.

The basic idea of the project is to contribute to improving the health of consumers with the participation of the productive sector and the research sector.

The aim is to add value to the primary sector to help overcome the current crisis and to ensure the settlement of rural populations in their natural environment, thereby preventing depopulation and environmental deterioration.

We would note that our project could be very interesting in other countries where the consumer trends regarding the acquisition of healthier products.

Current state of development: Idea

Foreseen project duration: Two years

Partners already involved

LHICA (Laboratorio de Higiene, Inspección y Control de Alimentos de la Universidad de Santiago de Compostela) Hygienic Laboratory, Inspection and Food Control of the University of Santiago de Compostela (USC) , Campus de Lugo, with research experience

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CALL

Title and reference number: SFS7-2014/2015: GENETIC RESOURCES AND AGRICULTURAL DIVERSITY FOR FOOD SECURITY, PRODUCTIVITY AND RESILIENCE

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

Expected role in the project/ Type of organisation sought

ENTITIES OR ASSOCIATIONS INTERESTING IN SEEKING A VALUE ADDED MEAT QUALITY

Countries/ regions: The EU countries

Deadline for responding: February 2014

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood

Partner Search

R&D Institution



PRONAMAR. UNIVERSITY OF A CORUÑA

*PARTNER SEARCH from Spain
(14ES0394)*

ORGANIZATION

General activity

Our group PRONAMAR (Marine Natural Products, website: www.pronamar.com) is integrated into the research group QOSBIOS at the University of A Coruña.

The main goal of PRONAMAR is the search for new bioactive natural substances, mainly from marine organisms, and the development of their applications, either from themselves or from their derivatives through synthetic processes. In the last 8 years we are focusing on the study of siderophores from pathogenic bacteria in fish farming. Our group is actively involved in the isolation, structural identification, synthesis and biological evaluation of siderophores.

PROJECT

TITLE: New treatments against fish pathogenic bacteria in aquaculture using their iron uptake mechanisms

Acronym: PISCIPATHOGEN

Outline of the project idea

Specific challenge: One of the main problems of fish farming is the spread of infectious diseases (such as vibriosis, pasteurellosis and furunculosis) that results in considerable economic losses in aquaculture throughout the world. They are mainly caused by some strains of several fish pathogens. The search for more effective and specific treatments against pathogenic bacteria is a priority in aquaculture because the abusive and indiscriminate use of broad spectrum antibiotics in aquaculture is causing the emergence of

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pathogenic bacteria resistant to most of the drugs, threats to human health via the food chain and environmental problems.

Scope: In response to the restricted access to soluble iron due to the low solubility of iron (III) at physiological pH, bacteria evolved high-affinity iron uptake pathways comprised of ferric iron specific carriers, termed siderophores. They are excreted into the culture medium, strongly chelate and deliver iron into the cells (via specific outer membrane receptors). Since siderophores are critical for growth and virulence of the producer pathogens, several approaches have been applied using well known iron uptake pathways: Inhibitors of the first steps of siderophore biosynthesis, the synthesis of analogs that serve as antagonists and the preparation of conjugates between siderophores and known antimicrobial agents to carry drugs into cells more efficiently (which is known as the Trojan horse strategy). Furthermore, other strategies imply the development of bacterial vaccines based in the induction of antibodies using siderophores or using their protein receptors.

Expected impact: the developments of new treatments against these infection diseases will improve the development of the European aquaculture sector.

Current state of development: Proposal under development

Foreseen project duration: 3 years

Partners already involved

Microbiological research group coordinated by Manuel L. Lemos from the Department of Microbiology and Parasitology, Institute of Aquaculture, University of Santiago de Compostela in Spain.

CALL

Title and reference number: SFS-10-2014/2015: Tackling disease related challenges and threats of European farmed aquatic animals

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

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Expected role in the project/ Type of organisation sought

Research Groups from Universities:

Role in the project: they have to be involved in several fields such as chemical biology, organic synthesis, molecular microbiology, parasitology, metal metabolism, etc.

- Industries interested in marketing veterinary products

Role in the project: test the products/drugs developed during the project

- Fish farms

Role in the project: the problematic reporting of infectious diseases in farmed fish and check the efficacy of the products developed

Countries/ regions: The EU countries

Deadline for responding: February 2014

Network partner contact for this profile (Enterprise Europe Network)

EEN node: Galactea-Plus

Organisation name: CIS Galicia

Address: A Cabana, s/n.

Postcode: 15590

City: Ferrol

Country: Spain

Contact person: Jana Vavrinová

Telephone: 34 981 337 146

E-mail: galactea@cisgalicia.org

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Partner Search

SME



ACEITUNAS TORRENT S.L.

*PARTNER SEARCH from SPAIN
(14ES0393)*

ORGANIZATION

General activity

Our company, devoted to the dressing, packaging and commercialization of table olives, is one of the biggest exporting companies of table olives in Spain.

In our continuous process for improving and making a difference with our competitors, our R&D Department is currently carrying out several projects related with the decreasing of water consumption (and consequently of energy) in our industry, such as the elimination of effluent liquids through the usage of renewable energies, the process water treatment for its subsequent reusing, and the spinning for the watery phase separation/organic phase of the process water treatment system.

Organization size: 10-49

PROJECT

TITLE: EVAPORATION OF WASTEWATER THROUGH RENEWABLE POWER

Acronym: ECO-EVAPORATE

Outline of the project idea

We aim to develop an evaporation system of wastewater (effluents) from the different processes in the food industry. Currently there is no developed treatment for that.

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At present, evaporation systems have a high energetic cost, which makes these projects unviable, so we need to develop a system empowered by renewable energy and capable to work with no (or very little) external power.

Current state of development: Idea

Foreseen project duration: 2 YEARS

CALL

Title and reference number: Resource-efficient eco-innovative food production and processing

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

Expected role in the project/ Type of organisation sought

R&D Institution

Technological Centre

SME

Countries/ regions: The EU countries

Deadline for responding: February 2014

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: C/ Max Planck, 3. Edificio Iris 1.

Postcode: 41092

City: Sevilla

Country: Spain

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**European R&D projects -
Agrofood Partnership Profiles
Catalogue 2014**

Sector Group Agrofood



Contact person: Cristina Cabeza

Telephone: +34 955 007 497

E-mail: cristina.cabeza@juntadeandalucia.es

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Partner Search

R&D Institution



*RESEARCH GROUP: "DERIVADOS DE LA UVA"
(AGR167)*

*PARTNER SEARCH from Spain
(14ES0392)*

ORGANIZATION

Organization size: >250

PROJECT

TITLE: Fermented beverages from fruit surplus with bioactive composition

Acronym:

Outline of the project idea

R&D Institution

Current state of development: Proposal under development

Foreseen project duration: 24 months

Partners already involved

1/ (Coordinator) RTD - Italy

2/ SME - Italy

3/SME - Spain

4/SME - Spain

5/SME - France

6/ SME - Italy

7/SME - Italy

8/SME - Spain

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9/SME - Spain
 10/SME - France
 11/RTD - Spain
 12/RTD - Spain
 13/RTD - France

CALL

Title and reference number: SFS-17-2014: Innovative solutions for sustainable novel food processing

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

Expected role in the project/ Type of organisation sought

An SME interested in the elaboration of the drink

An RTD research group with expertise in consumer acceptance test from other Member State other than presented in the previous proposal

Countries/ regions: The EU countries

Deadline for responding: February 2014

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode: 41092

City: Sevilla

Country: Spain

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Contact person: Laura Valle

Telephone: +34 955007482

E-mail: laura.valle@juntadeandalucia.es

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Partner Search

R&D Institution

 **INSTITUTE OF SCIENCES OF FOOD PRODUCTION (ISPA), NATIONAL RESEARCH COUNCIL (CNR)**

*PARTNER SEARCH from Italy
(14IT0391)*

ORGANIZATION

General activity

ISPA-CNR is a centre of excellence, worldwide renowned, acting in the fields of scientific research, innovation and technology transfer aimed to improve safety and quality of agro-food products. By creating synergistic actions between scientific research and production sectors with the transfer of scientific knowledge, ISPA-CNR fosters technological innovation paths of small, medium and large national and foreign agro-food enterprises. In particular, in the field of food and feed safety, innovative methodologies for detection of mycotoxins, toxigenic fungi, microbial pathogens and allergens in cereals, wine, pasta, milk, baby foods, dried fruits, are being developed in national and international projects.

Organization size: 50-249

PROJECT

TITLE: Innovative protein sources for monogastric feeding

Acronym: PROINSECTFEED

Outline of the project idea

The use of insects as a more sustainable source of nutrients has been matter of great attention and researches have highlighted their potential as raw material for feeds.

Moreover it has been shown that insects can be raised on waste converting them into high nutritional raw materials. Improving mass-rearing techniques on an industrial scale could become a new economic sector and simultaneously help to solve other agricultural and

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environmental problems. However, there are still a number of challenges that need to be solved and a broadly supported research would have significant positive economic and environmental effects. PROINSECTFEED will evaluate the conversion of wastes into a high sustainable protein feed for fish and poultry nutrition, bringing environmentally friendly solutions for the supply of feeds for livestock species and for the future sustainable development of animal husbandry. The PROINSECTFEED project will be implemented over a period of 36 months, partners belonging to non-profit organization and private companies will interact within 10 work-packages that will cover the following aspects: insect meals production and safety evaluation; livestock performances, health and welfare; food quality and safety; economic, legal and social evaluations.

Current state of development: Proposal under development

Foreseen project duration: 36 months

CALL

Title and reference number: SFS 15 - 2014: Proteins of the future

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

Type of organisation sought and expected role in the project

SMEs active in insect meal production

SMEs active in poultry and fish feedstuff production

SMEs active in fertilizers production

R&D Institution expert in LCA study

R&D Institution expert in Consumer Science

Countries/ regions: The EU countries

Deadline for responding: February 2014

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: ALPS EEN

Organisation name: Unioncamere Piemonte

Address: Via Cavour 17

Postcode: 10123

City: Torino

Country: Italy

Contact person: Daniela Vismara

Telephone: 0039 011 5669239

E-mail: d.vismara@pie.camcom.it

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 Business Support on Your Doorstep	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	

Partner Search

SME



GEORGE MHLANGA

*PARTNER SEARCH from Denmark
(14DK0390)*

ORGANIZATION

General activity

Fenugreek seed extracts, isolated, purified, patented and applied,

Organization size: 50-249

PROJECT

TITLE: Secondary products from fenugreek seed

Outline of the project idea

The project intends to mine as many secondary products from fenugreek seed as possible.

To make this possible a unique method has been developed to remove the gum from the whole fenugreek seed – no seed crushing. A crude method has been developed to extract anti-microbials (bacteria and some fungus) from the degummed seed. Further methods to sequentially remove most of the products shall be under development in the EU project.

Perspectives:

1. To fully develop methods to extract and purify anti-microbials and other active compounds.
2. To fully develop extraction, refine and characterize oils from fenugreek seed
3. Fully develop modification of these oils – fractionation (value adding)
4. Industrial uses of these oils (in food, personal care, pharmaceutical and technical areas)
5. To characterise the active compounds

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6. Bio-assaying of the products
7. Benefits of the isolated compounds in industry, human health and environment.
8. Application of the other compounds in different areas.
9. Industrial scale production (up-scaling).
10. Seek industrial partners for the individual compounds
11. Possible cultivation of the fenugreek seed crop in EU

Current state of development: Proposal under development

Foreseen project duration: 2-3 years

CALL

Title and reference number: ISIB-5-2014: Renewable oil crops as a source of bio-based products

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

PARTNER Sought

Type of organisation sought and expected role in the project

1. Plant oils refinery sequential fractionation and separation of oils 2. Sequential separation of plant active compounds (polarities) 3. Characterisation of biological compounds (GC-MS) and identification. 4. Modification of plant oils. 5. Industrial application of oils 5. Bioassaying of plant compounds at cell level (cell culture). 6. Up-scaling of extraction processes. 7. Cultivation trials including harvesting techniques of the fenugreek crop for seed. 8. Microbiology (bacteria and fungi). 9. Engineering process material and energy recycling (minimum waste). 10. Industrial partners search (sectional search for the individual products). 11. Technical applications and trial applications of oils and other bioactive compounds from fenugreek seed.

Countries/ regions: EU countries/ India/Norway/

Deadline for responding: 10/02/2014

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Network partner contact for this profile (Enterprise Europe Network)

EEN node: DK150121-09

Organisation name: Agro Business Park

Address: Niels Pedersens Allé 2

Postcode: DK-8830

City: Tjele

Country: Denmark

Contact person: Anders Skeem

E-mail: as@agropark.dk

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 Business Support on Your Doorstep  AGROFOOD FOR THE FUTURE	<i>European R&D projects - Agrofood Partnership Profiles Catalogue 2014</i> Sector Group Agrofood	 HORIZON 2020

Partner Search

SME

 **HÖFELMEYER WAAGEN GMBH**

*PARTNER SEARCH from Germany
(14DE0381)*

ORGANIZATION

General activity

Scale producer

Organization size: 50-249

PROJECT

TITLE: Quality assurance system for food industry

Acronym: QAS

Outline of the project idea

The quality assurance station is a combination of Checkweigher, Vision Inspection, X-ray inspection, metal detection, MAP Control and labelling system linked together in one machine or as single module for the food industry.

Vision inspection solutions will meet manufacturer quality assurance requirements for plastic containers, glass bottles, jars, screw or snap-on caps, flatpacks, cartons or pill packs. Also it checks the attached barcode on the product.

Metal detectors for food processing can inspect product in all formats from packaged conveyerised food products to bulk powder or granular materials through to liquids, pastes and slurries. Systems can be utilised to provide compliance with food safety inspection standards, industry guidance and legislation.

X-ray inspection technology offers exceptional contamination detection, such as glass, metal, bones, stone and high-density plastics, even for products packaged in foil or metallised film.

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 Business Support on Your Doorstep	European R&D projects - Agrofood Partnership Profiles Catalogue 2014 Sector Group Agrofood	

The checkweigher checks the weight of a product and will push out underweighted products.

Automatic label applicators are used to apply pre-printed, self-adhesive (pressure-sensitive) labels to products, accurately and reliably every time. This ensures identification and traceability of a single product on the basis of QR-Codes and or Barcodes.

MAP (Modified Atmosphere Packing) Control

Regular, systematic in-line testing of every package provides total output assurance to measure package integrity and management of the MAP gas blend.

Current state of development: Idea

Foreseen project duration: 12 months

Partners already involved

none

PARTNER Sought

Type of organisation sought and expected role in the project

Cooperation Partner

Countries/ regions: Europe

Network partner contact for this profile (Enterprise Europe Network)

EEN node: N-Support

Organisation name: University of Applied Science Osnabrueck (Stiftung Fachhochschule Osnabrueck)

City: Osnabrueck

Country: Germany

Contact person: Julia Kümper

Telephone: +49 (0) 541 969 3073

Fax: +49 (0) 541 969 2041

E-mail: j.kuemper@wt-os.de

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Partner Search

SME



HINOMAN AGRO INDUSTRIAL CO. LTD.

*PARTNER SEARCH from Israel
(14IL0382)*

ORGANIZATION

General activity

Development of a competitive, human-grade compatible, highly sustainable, modular and automated - production-unit of an innovative aquaculture source of 40% whole protein and strong presence of iron, calcium, and Zinc, in a tiny LEAF vegetable (NOT ALGAE !!). High year round productivity.

Organization size: 1-9

PROJECT

TITLE: The novel, Affordable "SuperFood"

Outline of the project idea

Hinoman is an Israeli agro-industrial venture company developing a cultivation module enabling stable, human-grade-compatible, competitive, highly uniform output of its proprietary Non GMO 0.5 mm aquatic strain. Hinoman has been developing a host of proprietary products based on the biomass it produces and business partners will be franchised to produce the biomass and said products which will include commodity products such isolated protein and fiber.

Our innovation represents a significant breakthrough in making economically viable novel source of food for humans, rich in the nutrients cited first above, and more. The plant produced by Hinoman will represent an additional source of vegetal protein to soy, however one that is not seasonal, nor requiring long term storage - but rather supplied just-in-time to industrial customers and retail chains. We harvest on a daily basis.

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Being aqua-culture, the novel affordable "super-food" makes no use of arable land. We use 0 pesticides, and the entire process is being automated to require little manpower.

Our system expands the offering of fresh healthy, highly nutritious, price-stable, source of food, beyond certain known constraints of most current major crops: the requirement for flat land, use of pesticides, seasonality, GMO in many cases, and more.

Hinoman production requires little grid power, less water than spinach, and produces a positive ecological footprint with our 365 days/year photosynthesis. Given certain traits of our vegetable, our proprietary products (patent pending) will be of significant value to populations of high nutritional awareness or requirements such as the elderly, people on diet, sportsmen and more.

Current state of development: Project already started

Partners already involved

none

CALL

Title and reference number: SFS-15-2014

Link to the call document:

http://ec.europa.eu/research/participants/portal/doc/call/h2020/common/1587800-09_food_sc2_wp_2014-2015_en.pdf

Closing date: 12/03/2014 (first stage)

PARTNER Sought

Type of organisation sought and expected role in the project

we are looking for: (1) institutions with broad analytical ability for profiling of various nutritional components of our innovative food (2) potential users such as food makers

Countries/ regions: EU

Deadline for responding: 28/02/14

Network partner contact for this profile (Enterprise Europe Network)

■ ■ ■ 1103





EEN node: MATIMOP-ISERD

Organisation name: Israel-EU R&D Directorate

Address: Industry House, 29 Hamered St.

City: Tel Aviv

Country: Israel

Contact person: Uri Fishelson

Telephone: 972-3-5118171

E-mail: uri@iserd.org.il

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Partner Search

Technological Centre



SURGENIA, CENTRO TECNOLÓGICO ANDALUZ DE DISEÑO

*PARTNER SEARCH from Spain
(14ES0384)*

ORGANIZATION

General activity

SURGENIA is a non-for-profit foundation, listed as an Agent of Knowledge. It is a Technological Centre centred on Design and supported by more than 20 trustees from varying strategic sectors.

The core activity of the centre is to create value through a deep and continuous analysis of trends and applicable technology, taking into consideration people's expectations, preferences and experiences. This analysis is followed by a set of recommendations, aiming to improve competitiveness through R+D+i projects that use design as a tool for innovation and differentiation. To do so, our organization counts with multidisciplinary teams of researchers, designers, engineers, manufacturers and/or distributors.

Organization size: 10-49

PROJECT

TITLE: Shaping the future of a better elderly nutrition in Europe

Acronym: SFORELD

Outline of the project idea

Malnutrition in the Elderly is not defined just for the quality of their daily intakes. It is a fact that issues such as the easy access to food stores, lack of elderly-friendly distribution models, lost of interest in home tasks like cooking, partial loss of senses such as taste and smell or unsuitability of product offer for the Elderly needs and conditions, influence the probabilities of malnutrition or intensify the degree of it. We propose a multivariable approach were environment conditions and the development of the industry directed to this part of European population can push forward in the offer available for the Elderly to improve their nutrition. We propose a project model together with

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partners belonging to medical fields, attention to the Elderly, agrofood industry partners, public and private initiatives focused on this segment. Through research on behavior, service design applied to food service for the Elderly, and design driven innovation for the development of new products we would be able to complement a medical approach providing a social and behavioural vision. Surgenia is experienced in consumption and product design trends monitoring, in innovation processes for new products and services development and count on support of regional foundations dedicated to the attention of the Elderly in their facilities, where we would carry out the tests on diets and necessary field research. Also we propose to develop a new concept of distribution channel adapted to the Elderly and improve different models of food service for the Elderly.

Current state of development: Proposal under development

Foreseen project duration: 2 years

Partners already involved

1) SURGENIA, CENTRO TECNOLÓGICO ANDALUZ DE DISEÑO (Researcher, developer) - 2) Foundation for the Attention of the Elderly (Spain)

CALL

Title and reference number: SFS-16-2015: Tackling malnutrition in the elderly

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2343-sfs-16-2015.html>

Closing date: 24/02/2015 (first stage)

PARTNER Sought

Expected role in the project and Type of organisation sought

1) Distribution chain with implantation in Europe and interested in testing new business models focused in the Elderly. 2) Industrials with capacity to prototype new products developed in the frame of the project specifically for the Elderly. 3) Medical institutions with experience on nutrition for the Elderly and facilities for researching on behaviour, diets, lifestyles and testing the developments of the project.

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Countries/ regions: Belgium / Netherlands / France / Portugal / Italy / Norway / Sweden / Finland

Deadline for responding:

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

Postcode:

City: Sevilla

Country: Spain

Contact person: Leonor Camacho Cascajo

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Fax: 0034 955 05 85 87

E-mail: leonor.camacho@juntadeandalucia.es

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Partner Search

R&D Institution



RESEARCH TEAM AGR 134 "CHARACTERIZATION AND CONSERVATION OF DOMESTIC ANIMAL GENETICS RESOURCES FOR RURAL DEVELOPPMENT"

*PARTNER SEARCH from Spain
(14ES0386)*

ORGANIZATION

General activity

The Research Group 'Characterization and Preservation of Genetic Resources of Domestic Animals for Rural Development' (AGR-134) was founded in 1991 as a part of the 'Andalusian Research Plan' promoted by the Andalusian Regional Government. The research studies within the sphere of the characterization and preservation of genetic resources have led to successfully achieve the following goals:

- Identification and cataloguing in a number of both Spanish and Latin-American autochthonous races utilized in extensive production systems.
- Inventory of autochthonous livestock patrimony.
- Plans for the improvement and preservation of autochthonous races.
- Support to farmers in the implementation of the aforementioned plans.
- Proposals and strategies aimed to improve the profitability of resources, their commercialization and possible alternative uses.

Organization size: 10-49

PROJECT

TITLE: Conserving Domestic Animal Genetic Resources and Improvement of the Productivity in efficiently Crops by integrated use of livestock (Analysis of Biodiversity, socioeconomic, cultural and enviromental values).

Acronym: ResGen in efficiently crops

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Outline of the project idea

The use and conservation of livestock resources can assure the food security and do possible a rural sustainable development in the future. The decisions that define the best strategy for the conservation and use of the domestic animal genetic resources are based principally on the quantification of the genetic diversity. We can use different methods for estimating the diversity (phenotypic and genetic) that will help to take the decisions. Some of these methods will contribute results of great utility (as resistance to diseases, resistance to the stress, productivity), for the improvement of the productivity and conservation of the diversity.

Another side, in the programs of conservation of AnDGR, usually a classical economic approach is adopted, which includes correct identification of appraisal level (national, sectorial, community or household), whether it is retrospective or prospective, and the planning horizons and discount factors to be used. Although it is suggested that the appraisal calculate costs and returns for each group of stakeholders (livestock keepers, breeders, retailers, government, etc.), this may not always be possible. It is also suggested that consideration be given to non monetary values that cannot easily be included in economic analyses, but will often play a critical role in determining the wisdom of the investment. Factors to consider include cultural and gender issues, food and livelihood security, the wider impacts of improved nutrition and hard-to quantify household and other services provided by livestock.

To meet the challenge of achieving food security and healthy nutrition, we need to focus on ecologically sustainable intensification of farming systems. For example, sustaining and restoring soil biodiversity, and thereby soil functions, offer significant opportunities to make better use of land and water in order to grow crops more efficiently.

The goal of the research is to complete the information about the value of farm animal breeds reared in different ecosystems. In coordination with other teams, we proposed to develop a multidisciplinary project to analyze the actual and future possibility for make a sustainable use and management of DANGR into the different agroecosystems and to elaborate effectives indicators(Socioeconomical and enviromental relevant) for valuated the DANGR biodiversity.

Current state of development: Idea

Foreseen project duration: Four Years

Partners already involved

private Farmers Organitations and food processing Enterprises

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CALL

Title and reference number: SFS-07b-2015. Topic: Management and sustainable use of genetic resources

Link to the call document:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2339-sfs-07b-2015.html>

Closing date: 24/02/2015 (first stage)

PARTNER Sought

Type of organisation sought and expected role in the project:

Research Institutions and governmental or private Farmers Organisations

Countries/ regions: Europe and third countries

Deadline for responding: 05/05/2014

Network partner contact for this profile (Enterprise Europe Network)

EEN node: CESEAND

Organisation name: Agencia Andaluza del Conocimiento

Address: c/ Max Planck 3, Edificio Iris 1

City: Sevilla

Country: Spain

Contact person: Laura Valle

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E-mail: laura.valle@juntadeandalucia.es

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