



Instituto de Ciências Agrárias e Ambientais Mediterrânicas

Knowledge connecting land, food and people

ACTIVITY REPORT

2014

ICAAM, Instituto de Ciências Agrárias
e Ambientais Mediterrânicas
Universidade de Évora

ICAAM ACTIVITY REPORT 2014

INTRODUCTION

ICAAM (standing for the portuguese designation of *Institute of Mediterranean Agricultural and Environmental Sciences*) is one of the 20 Research Units of the University of Évora, located on “Campus da Mitra”, an experimental farm covering more than 285ha in Alentejo (southern Portugal), 12 km from the city of Évora.

The mission of ICAAM is to develop research to assess and support the sustainability of Mediterranean agriculture and related ecosystems.

ICAAM’s main goals are to achieve high scientific and technological standards in the domains of Agriculture and Environment, in order to provide solutions to regionally relevant concerns of Mediterranean land use, agro-ecosystems and landscape, including socio-economic components. Therefore ICAAM has a double role: to produce excellent research on the unique Mediterranean agro-silvo-pastoral systems, and to produce knowledge to support decision making at different governance scales.

The focus of research on Mediterranean production systems, products and ecosystems, is the basis of ICAAM’s differentiation. This includes agricultural, forestry and silvo-pastoral systems, both the intensive specialized and the extensive systems, and both crop and livestock production. It concerns the whole supply chain and the resources mobilized and also the ecological functioning and the territorial integration of these socio-ecological systems. With this contribution to the eco-economy, ICAAM is now at the forefront of what is expected from European research in the framework of Horizon 2020.

To achieve these objectives, ICAAM:

- puts a strong focus in interdisciplinarity, integrating researchers from several departments of the University of Évora and research teams from the Universities of Algarve and Madeira (Banco de Germoplasma ISOplexis), and a vast number of scientific areas that work together in multidisciplinary teams (Agricultural Engineering, Animal Science, Biology, Crop Science, Physics, Chemistry, Ecology, Economics, Landscape and Territory, Soil Science and Veterinary Medicine).
- favors a close cooperation with other national and international R&D units, as well as local producers, professional associations and other relevant stakeholders.

STRUCTURE AND ORGANIZATION

STRUCTURE DESCRIPTION AND CHART

ICAAM’s **Scientific Council** is composed of all eligible PhDs (i.e. PhDs who comply with predefined standards of scientific production). Its functions include the discussion and approval of scientific and financial reports, plan of

activities and budget and the admission of new members. The President of the Scientific Council is elected for 3 years and assumes the functions of Director of the Institute.



Teresa Pinto Correia (mtpc@uevora.pt), President of the Scientific Council, Director

Professora Auxiliar com Agregação, PhD in Geography, University of Copenhagen, Denmark

The **Scientific Council Standing Committee**, formed by the Board of Directors and the Coordinators of the eight Research Groups, supports the Board of Directors in current affairs.

The **Board of Directors** ensures the regular management of the Institute, according to the plans and budget approved by the Scientific Council. The Director is the elected President of the Scientific Council and nominates the Vice-Directors.



Augusto Peixe (apeixe@uevora.pt), Vice-Director

Professor Auxiliar, PhD in Agricultural Sciences, Universidade de Évora



Elvira Sales Baptista (elsaba@uevora.pt), Vice-Director

Professora Auxiliar, PhD in Agricultural Sciences, Universidade de Évora



Gottlieb Basch (gb@uevora.pt), Vice-Director

Professor Associado, PhD in Agricultural Sciences, University of Göttingen

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The **Scientific Advisory Committee** is formed by international experts in the scientific areas of ICAAM that periodically evaluate ICAAM's activity and achievements.

The **administrative management unit** supports the Board of Directors and the Scientific Council in handling all the administrative work; the administrative team ensures communication with the central administration of the University of Évora and conformity with the established procedures.



Manuel Luís Brandão (mb@uevora.pt), Secretariat



Luís Cláudio Arraiano (lpa@uevora.pt), Secretariat

The **Office for Communication, Technology Transfer and Innovation (UDIT)** is dedicated to the dissemination of Research & Development results and to the promotion and transfer of technologic innovation, thus contributing to science outreach and regional development.



Joana Perdigão (jperdigao@uevora.pt), UDIT Coordinator

THEMATIC LINES AND RESEARCH GROUPS

The research activities of ICAAM are organized around three thematic lines that reflect major research goals:

- 1) Efficiency in the use of production factors;
- 2) Agri-food products quality and added-value;
- 3) Ecosystems integrity and landscapes multifunctionality.

ICAAM's researchers and scientific activity are organised in **8 Research Groups** that represent different perspectives and research objects:

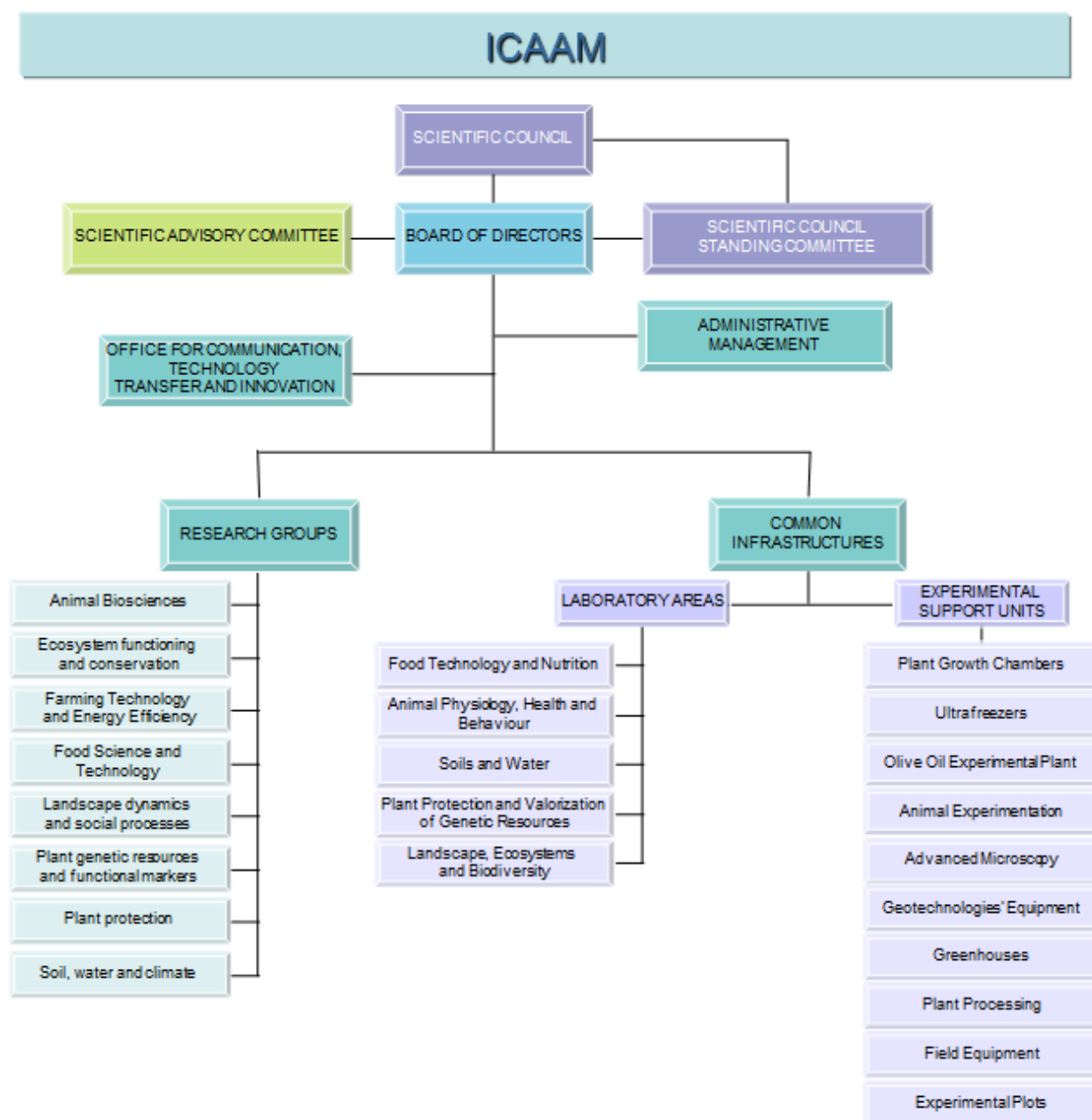
- Animal Biosciences
- Ecosystem Functioning and Conservation

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- Farming Technology and Energy Efficiency
- Food Science and Technology
- Landscape Dynamics and Social Processes
- Plant Genetic Resources and Functional Markers
- Plant Protection
- Soil, Water and Climate

ICAAM's facilities include 20 **laboratories** and 10 experimental support units that are available to all ICAAM members and authorized visitors.

ORGANIZATION CHART



2014 HIGHLIGHTS

In 2014 ICAAM published 127 papers in international journals with peer review, 30 scientific books/book chapters and presented 161 communications in international scientific meetings.

ICAAM researchers were involved in the proposals of 4 european projects that were approved in 2014 in the framework of Horizon 2020 calls: “*iSQAPER - Interactive Soil Quality Assessment in Europe and China for Agricultural Productivity and Environmental Resilience*”; “*PEGASUS - Public Ecosystem Goods and Services from Land Management - Unlocking the Synergies*”; “*SUFISA - Sustainable Finance for Sustainable Agriculture and Fisheries*” and “*TREASURE - Diversity of Local Pig Breeds and Production Systems for High Quality Traditional Products and Sustainable Pork Chains*”. One ERAfrica project dedicated to the study of the impact of innovative Conservation Agriculture Approaches in smallholder farms in Sub-Saharan Africa was also approved during 2014, as well as a LIFE+ project dedicated to the conservation of the fish species *Anaocypris hispanica* in the portuguese Guadiana river - *LIFE Saramugo - Conservation of the Saramugo (Anaocypris hispanica) in the Guadiana basin (Portugal)*.

The internationalization of ICAAM’s teams was also reinforced by the participation in 3 new COST actions, by the participation of ICAAM in two european networks agro-food networks - EURAGRI (European Agricultural Research Initiative) and AGROMED - and by the participation in the “EIP-AGRI Focus Group on Soil organic matter content in Mediterranean regions”.

ICAAM participated, as representative of University of Évora, in the proposal to the H2020 Program *Teaming* call that intends to establish a new *Centre of Excellence on Smart Agriculture and Forestry* in Portugal (*SMARTAgriFor*). This proposal was coordinated by Fundação para a Ciência e Tecnologia and involves a long-term partnership between 9 portuguese Universities, INIAV, Wageningen University and Wageningen Research Centre (DLO)

The approval of 5 new projects in cooperation with private companies (PRODER funding) represents a relevant contribution to the transfer of knowledge and technology into the business sector. The participation in a project dedicated to the promotion of employability and entrepreneurship of young graduates in the agro-forestry sector is another relevant input of ICAAM to the revitalization of economic, social, environmental and regional development of Alentejo.

ICAAM members were actively involved in the preparation of the Regional Smart Specialization Strategy, promoted by the Regional Planning Commission and participated in the discussion of the “Strategy of the Ministry of Agriculture and Sea for Research and Innovation in Agrofood and Forest sectors in 2014-2020”. By request of the ICAAM’s Board of Directors, and with the objective of presenting concerns and proposing solutions regarding the Scientific and Technological Policy for the Agrarian Sector, ICAAM representatives were received by the Minister of Agriculture and Sea; deputies of the Évora electoral district; the Parliamentary Committee of Agriculture and Sea; the Secretary of State for Research and the Secretary of State of Food and Agro-food Research. ICAAM

On behalf of University of Évora, ICAAM participates in the following Centres of Competences established in 2014 by initiative of the Ministry of Agriculture and Sea: Centre of Competence for Coark Oak and Cork; Centre of Competence for Pinus Pinaster; Centre of Competence for Stone Pine; Centre of Competence for Olive; Centre of Competence for the Wool.

ICAAM collaborated with two Local Action Groups in Alentejo, for the definition of their Local Development Strategies: GAL ALENTEJO CENTRAL and GAL TERRAS DENTRO.

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ICAAM organized and hosted, in collaboration with the University of Évora, the Portuguese Society of Plant Physiology and the Spanish Society of Plant Physiology, the *XII Luso-Spanish Symposium on Plant Water Relations – Water to Feed the World*. This international scientific brought together several researchers that presented works from over 100 authors.

ICAAM was also involved in the co-organization of the International Symposium *Advances in spatial typologies – How to move from concepts to practice?*, together with the University of Lisbon (IST) and IALE-Europe. This meeting gathered 100 researchers from several European countries.

RESEARCH

ANIMAL BIOSCIENCES RESEARCH GROUP

INTEGRATED RESEARCHERS - 24

HEAD OF GROUP



Fernando Capela e Silva (fcs@uevora.pt)

Assistant Professor, PhD in Biology, Universidade de Évora

MAJOR INTERESTS / OBJECTIVES

The main goal of the **Animal Biosciences** Group (ABG) is to contribute for a sustainable livestock sector in the areas of Physiology and Functional Biology of Systems, Nutrition, Genetics, Behaviour, Health and Welfare. With a focus on problem-oriented approaches, the research in the ABG involves the study of all aspects of the biology of farm and companion animals, and wildlife and laboratory species that address fundamental questions related to livestock and companion animal biology. The research emphasizes the integrative nature of biological systems and the use of experimental techniques to characterize them at the molecular, cellular, tissue, organism and population levels, in order to:

- (i) increase the efficiency and biosecurity of resources utilization and reduce the environmental impacts of production systems.
- (ii) improve animal welfare and protect animal, human and environmental health.

The ABG research activities can be categorized in two main areas:

1. Physiology of Production and Adaptation

1.1 Grazing Ecology: Behaviours and Adaptation

Grazing animals under free range systems are a major source of income in Mediterranean ecosystems, characterized by extremely hot dry summers and frequent heat waves. This research line conducts studies on animal feeding and thermoregulation strategies to find biomarkers for monitoring physiological status and diseases, and improve diet/ecosystems management and animal welfare.

1.2 Reproduction, Biotechnologies of Reproduction and Lactation

Autochthonous livestock breeds are vital in Mediterranean agro-silvo-pastoral systems. This research line develops studies on the improvement of reproductive efficiency, evaluation of colostrum production, quality and consumption, and consequent effects on new-born physiology and survival. Extra-situ conservation by cryopreservation of semen and embryos, produced in vivo and in vitro, and adjustment of assisted reproduction techniques have also been addressed.

2. Animal and Human Health and Biosecurity

2.1 Trends in Animal Infectious and Parasitic Diseases

This research line focus on the study of parasitic and infectious diseases which are of major importance either by their zoonotic potential, geographical expansion, wildlife reservoirs, economic impact in Mediterranean agriculture, or their vector-borne complex epidemiological cycles.

2.2 Pathology, Toxicology and Biomarkers in Health and Disease

This research line is dedicated to: (i) studies relating bioaerosols levels, meteorological parameters and allergy symptoms; the identification and molecular characterization of the most frequent allergens and development of specific and effective immunotherapy; (ii) the identification of biomarkers in animal and human biofluids related to food intake, nutritional status and xenobiotics effects, as well as for diagnostic, prognostic and predictive purposes.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[1], [3], [13], [16], [17], [18], [19], [21], [22], [23], [24], [25], [26], [31], [32], [41], [42], [43], [45], [54], [57], [58], [66], [69], [74], [77], [84], [90], [92], [95], [97], [98], [102], [110], [111], [126]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[7], [8], [11], [17], [19], [24], [28], [37], [38], [56], [62], [63]

ECOSYSTEMS FUNCTIONING AND CONSERVATION RESEARCH GROUP

HEAD OF GROUP



Maria Paula Simões (mps@uevora.pt)

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MAJOR INTERESTS / OBJECTIVES

The **Ecosystems Functioning and Conservation Group (EFC)** represents a cross-section of ICAAM's research interests with particular focus on environmental biology applied to agricultural and forestry sciences. The common goal of the multidisciplinary EFC team (from across plant and animal biology, mycology, ornithology, herpetology, ichthyology, terrestrial and aquatic ecology, agronomy, and forestry) is to promote a sustainable and smart integration of human activities with the conservation of biodiversity and ecosystem functioning associated with Mediterranean agroforestry. The group developed an integrative and systemic approach to the Mediterranean ecosystem functioning, mostly focusing on the impact of anthropogenic disturbances and how their effects on biodiversity and ecosystem processes can be mitigated.

Research at EFC is focused on two major research lines:

1. Monitoring Biodiversity and Conservation

Research addresses the identification of ecological indicators and keystone species for habitat rehabilitation/restoration, eointegrity monitoring, and assessment of high nature value (HNV) areas, through four main research domains:

- i. grazing impact on wild plant, fungi, and animal communities and related ecosystem integrity;
- ii. monitoring the effects of land-use and landscape fragmentation on biodiversity (specially focusing on plants, fungi, fishes, reptiles, amphibians, and birds) and agroforestry processes;
- iii. analysis and modelling of priority species and habitats;
- iv. monitoring habitat rehabilitation.

2. Functioning of Terrestrial and Freshwater Ecosystems

Research addresses the provision of management tools to promote a sustainable and smart integration of human activities with the conservation of natural resources by:

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- i. assessing plant ecophysiological and biochemical status on silvo-pastoral systems, olive groves, vineyards, and rice fields;
- ii. analysis and modelling of migratory, game, and invasive species in farming, forest and freshwater ecosystems;
- iii. monitoring the effects of land-use changes on the dynamics of soil properties (e.g. organic matter and nitrogen) and on water quality;
- iv. enhancing knowledge on the effects of soil and water use on freshwater ecosystems integrity.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[4], [5], [11], [20], [27], [46], [48], [55], [56], [61], [64], [70], [78], [85], [86], [87], [91], [92], [113], [115], [125]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[1], [3], [12], [16], [18], [19], [21], [31], [32], [34], [36], [37], [39], [61], [66]

HEAD OF GROUP



José Oliveira Peça (jmop@uevora.pt)

Associate Professor, PhD in Agricultural Engineering (Soil Machine Dynamics),
University of Newcastle upon Tyne

MAJOR INTERESTS / OBJECTIVES

The **Farming Technology and Energy Efficiency** Research Group consists of 3 teams:

[T1] 'Development of farm machinery' - development (concept; design/construction; field tests; preproduction prototype validation) of equipment. Projects are being pursued in fruit harvesting (olive) and mechanical tree pruning (olive, pear and apple orchards).

The Row-side Machine for Continuous Olive Harvesting is mainly intended for high-density olive groves (200 to 500 trees per hectare) with a potential market, in thousand hectares, of 800 in Europe, 300 in Northern Africa; 200 in the Middle East; 150 in South America. Work focus is to bring the present prototype (MkIII) into a viable product for the market.

Following 16 years of research studying a mechanized alternative to the expensive manual pruning of olive trees, it is a long-term goal to transfer the results obtained onto (a) super-high-density olive groves (b) to other fruit groves (Pêra-rocha).

[T2] 'Precision agriculture' - state-of-the-art knowledge in agriculture geotechnologies (GNSS, GIS, WEBGIS, Remote and Proximal sensing) and the concept of "precision agriculture" towards various applications, namely on extensive husbandry, cereals, vineyards, orchards, pest and disease risk maps.

T2 develops, together with companies and producers, three major projects:

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- i. use of quad mounted proximal sensors for the management of the binomial productivity/quality of grapes to promote economic and environmental sustainability of the highly competitive wine production sector (<http://inalentejo.uevora.pt/>);
- ii. use of European Space Agency remote sensors to monitor plagues and diseases, as well as disease and plague risk mapping (<http://lst.uevora.pt/>), in line with EU Directive (Directive 2009/128/EC - Sustainable Use of Pesticides);
- iii. satellite based biomass yield mapping and modulation of Mediterranean relevant forest species. Results obtained in 2013: (a) with different vineyards producers in the Alentejo (600 ha), (b) those obtained in "Vale de Santarém" with different tomato growers associations monitoring Tuta (a tomato plague), and (c) mapping and modulating biomass yield of *Quercus rotundifolia* and *Quercus suber*, indicate that the tools under development will achieve a great social value for national and international producers.

[T3] 'Energy efficiency in Agriculture' - focus in identifying, quantifying and putting forward possible correcting measures to questions related to the energy used in relevant and well identified agriculture sectors, using a common approach as in other EU countries.

This team has been involved in projects to quantify energy consumption in several agro-production activities (wheat, greenhouse tomatoes, olive groves, vineyards, dairy cows, pigs and broilers) and to study/identify ways to improve the use of energy, increasing energy efficiency, either by the improvement of the existent technology (modernization and automation of the systems, more rational use of agricultural inputs, such as irrigation water, fertilizers, pesticides, etc.) or by the adoption of new technologies (precision farming, conservation tillage, organic farming, integrated control systems). Also, the efficient use of energy in farm buildings either for environmental control systems or waste management have been studied by the team researchers.

MAJOR SCIENTIFIC ACHIEVEMENTS

Row-side Machine for Continuous Olive Harvesting

In 2014, the *Row-side Machine for Continuous Olive Harvesting*, in its present prototype MkIII version, has pursued durability tests to evaluate different machine operating parameters for harvesting efficiency, and different solutions for the vibrating rods.

Over the harvesting campaign of 2014 the following results were achieved:

- Alternative materials for the vibrating rods are now selected to be tested fully in the next harvest campaign. This goal was attained with the collaboration of Professor João Bordado and his team at the Department of Chemical Engineering of the IST of the University of Lisbon;
- The most promising design for the connection of the vibrating rods to the vibrating mast is now selected to be tested fully in the next harvest campaign;

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- The first results of field testing the prototype against other machinery currently used by farmers have been obtained. These results are leading to the definition of new lines of improvement.

Disc-saw pruning machine

The *Disc-saw pruning machine* is revealing to be an essential tool for the strategy of row-side olive harvesting. The harvest campaign of 2014 reveals the importance of pruning actions tailoring a canopy shape and an olive bearing zone to enhance the efficiency of olive detachment. Financial support from the Ministry of Agriculture (PRODER 55344 project) was obtained to address this issue over the harvest campaigns 2014 - 2016. A number of plots have already been installed to be evaluated in the following harvest campaigns.

The *Disc-saw pruning machine* in Pêra-rocha groves has been tested and the practical knowledge obtained has been transferred to the producers through field day sessions. Mechanical pruning, performed annually, topping the canopy parallel to the ground and hedging both sides of the canopy, followed by a manual pruning complement, should be contemplated as an alternative to the common labour intensive manual pruning with pneumatic shears. There is, however, an economical balance that should be addressed: on one side the lower pruning cost; on the other side the loss of income due to lower yields expected.

Satellite functions for biomass estimation and mapping

This line of research is based on the use of satellite allometric functions for biomass estimation and mapping for Mediterranean forest species.

Over the period of 2014 the following results were achieved:

- The development of methodology to identify and mapping the main Mediterranean forest species using satellite data.
- The develop a methodology to estimate above ground biomass with linear regression models for Mediterranean forest specie (*Q. rotundifolia*). The resulted model allows to estimate above ground forest biomass as a function of tree crown horizontal projection obtained using high spatial resolution satellite images.
- More similar studies are ongoing with Mediterranean forest species.

Proximal sensors in grape production

This line of research is based on the use of quad mounted active proximal sensors to manage the productivity/quality grapes binomial in order to promote economic and environmental sustainability of the highly competitive wine production sector.

Over the period of 2014 the following knowledge was understood and consolidated: Depending on plant vigor which can vary greatly from year to year, different vineyard practices should be established, mainly on irrigation and nutrition management.

Space Agency remote sensors to monitor plagues and diseases

This line of research is based on the use of European Space Agency remote sensors (2nd generation MSG satellites) to monitor plagues and diseases, as well as disease and plague risk mapping.

Over the period of 2014 this line achieved to produce the National risk mapping for Tuta absoluta (tomato plague).

The main objective of the project *"TESLA: Transferring energy save laid on agroindustry"* is to extend the best available practices for the evaluation of the energy situation and for the adoption of improving measures amongst the European SMEs on the agro-food sector.

Over the period of 2014, there were finished Handbooks on energy efficiency, for the four agro-industries sectors (wineries, olive oil mills, animal feed factories, and fruit and vegetables processing plants). These handbooks were translated from English to Portuguese, Italian, French and Spanish and are available in the project website (<http://www.teslaproject.org/>).

There was also finished the audit guides for the 4 agro-food sectors, which will help the execution of the energy audits in the cooperatives.

In June it was held the first brokerage event of the Project in the National Agricultural Fair in Santarém, Portugal. It was an opportunity to show some of the projects results and also to have presentations from companies working in the energy sector bringing new technologies and solutions to implement energy efficiency measures and reduce energy consumption.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[6], [7], [29], [49], [50], [82], [89], [103], [104], [105], [106], [107], [108], [109], [113]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[1], [2], [13], [19], [23], [30], [32], [36], [38], [61], [65], [66]

HEAD OF GROUP



Miguel Elias (elias@uevora.pt)

Assistant Professor, PhD Universidade de Évora

MAJOR INTERESTS / OBJECTIVES

Main Objectives

- 1) To promote and consolidate excellent research in the field of food characterization, production, processing and conservation in order to ensure its quality and safety;
- 2) To enhance product differentiation and innovation in order to increase products added value, considering market needs and consumers preferences and ensuring a sustainable market position;
- 3) To develop new and/or adapted technologies that will enable processing and valorization of quality and safe food products from the nutritional and organoleptic point of view;
- 4) To increase knowledge transfer of research outcomes to the industries contributing actively to the development of competitiveness as well as to the consolidation of the SME sector, mainly at regional level (though not forgetting the national level), thus contributing to a long term sustainability of regional economy based on innovation and competitiveness;
- 5) To increase and establish multidisciplinary networks that will include national or international partners and stakeholders.

Research Lines

- 1) Increase the safety of meat products (sausages), controlling the amounts of biogenic amines and polycyclic aromatic hydrocarbons, by using selected indigenous starter cultures and improving technology.
- 2) Reduce the amounts of cholesterol and lipids in meat, whilst maintaining quality, by modifying Alentejo pig's diet.

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- 3) Characterize the lipidic profile of "lamprey", highlighting the ratio omega 6/omega 3 importance to an equilibrated diet.
- 4) Develop a new methodology for the detection and quantification of pesticides residues in olive oil based on molecularly imprinted polymers technology.
- 5) Develop an alternative ageing technologies for wine and wine spirits by using different woods with oenological relevance and the impact of their use in sensorial and chemical characteristics of products.
- 6) Improve post-harvest technology to increase shelf life of high quality fruits.

MAJOR SCIENTIFIC ACHIEVEMENTS

FST researchers actively collaborated with other ICAAM groups and with other research centres, both national and international (e.g. CIISA-FMV, UL, iMed.UL, CECAV-UTAD, REQUIMTE-FCT, UNL, INRA, CICYTEX, etc) and were funded by several national and international research projects. Furthermore, there some ongoing projects with the private sector namely with regional and/or national producers and association enterprises (e.g. Vale da Rosa, Paladares Alentejanos, etc).

Among the major scientific achievements, we can highlight the following:

- Use of mixed microbial starter cultures to improve safety and quality of traditional dry-fermented sausages;
- Reduction of biogenic amines content in traditional dry-fermented sausages using starter cultures;
- Extension of traditional dry-fermented sausages' shelf-life by changes in end-products' water losses;
- Fat, from meat quality to life quality: study of the effects of nutrients (e.g. legume and by-products' consumption) and supplements (e.g. betaine, a carcass modifier) on the lipid profile and cholesterol content of meat and fat of Alentejano pigs;
- Sequencing of genes associated to lipid synthesis metabolism, and gene expression of lipid metabolism enzymes, hormones and transcription factors;
- Nutritional characterization (namely lipidic profile, omega fatty acids, cholesterol content, among others) of the sea lamprey meat for human consumption;
- Development and implementation of a highly selective analytical methodology for the detection and quantification of pesticide residues from organophosphorus, triazines and pirethroids classes in olive oil samples by means of solid phase extraction adsorbents based on molecularly imprinted polymers;
- Evaluation of olive pastes and pomaces moisture and oil content using NIRS for different olive varieties;
- Volatile composition of wines and wood pieces from different species;
- Improvement of non-destructive analytical methods and techniques, such as NIRS, for intrinsic quality evaluation of the ripeness stage of fruits, such as strawberries, cherries and seedless table grapes;
- Evaluation of the nutritional quality (antioxidants and polyphenols contents) in fruits, namely cherries and seedless table grapes;

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-New post-harvest storage methods, in particular antimicrobial edible coatings (chitosan, etc) in strawberries and seedless table grapes;

-Evaluation of calcium fruit content in the cell wall, in tomato and strawberries, and its implications in fruit quality and storage ability.

Some of these studies have already been published in 2014, resulting in 13 publications in international peer-reviewed journals alone.

FST members were also involved in Advanced Training programmes, such as the Masters “Agronomical engineering”, Olive cultivation and olive oil” and “Viticulture and enology”; and the PhD programme on Agricultural Sciences. Several MSc and PhD theses were concluded under the supervision of FST team members.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[1], [2], [19], [35], [36], [58], [59], [60], [68], [83], [100], [112], [118]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[7], [19], [34], [40], [41], [43], [46]

HEAD OF GROUP



Nuno de Almeida Ribeiro (nribeiro@uevora.pt)

Assistant Professor, PhD in Forest Sciences, Universidade de Évora

MAJOR INTERESTS / OBJECTIVES

The research group on **Landscape Dynamics and Social Processes** (LDSP) is part of the Ecosystems Integrity and Landscapes Multifunctionality (ICAAM's thematic strand 3).

The general objectives of this research group are: 1) to study the relation between land use systems (agriculture, forestry and other uses of the rural land) and spatial patterns at the landscape level. It progresses through assessment and modelling this relation, in broad spatial and temporal scales, and upscaling and downscaling from the plant to the landscape level (LDSP 1); 2) to understand and model land management and decision-making at different levels of governance, from the farm to the local community, and further into policy design and formulation; for this, it addresses economic, social and cultural drivers and processes (LDSP 2).

Research Lines

LDSP has two major research lines: LDSP1 and LDSP 2:

LDSP 1 'Landscape Dynamics and modeling' focus on:

- i. the assessment of land cover mosaics and landscape changes, their causes and their impacts on landscape multifunctionality, focusing both on the ecological and economic as well as on the social dimension (recreation, tourism, identity, policy changes, etc.), and
- ii. modelling of forest stands integrating multiple components of forest and agro-forest systems.

LDSP 2 'Social processes and governance' deals with:

- i. governance and the processes of decision-making, from the farm to the policy level, integrating the assessment of the multiple private and public driven drivers; and
- ii. participatory and transdisciplinarity methods that support research-practice interactions.

MAJOR SCIENTIFIC ACHIEVEMENTS

Two large research projects, one European and one financed by the FCT, came successfully to an end and results were published in 2014, with other publications submitted and expected to be published 2015:

- a) 2011-14, FarmPath, “Farming Transitions: Pathways Towards Regional Sustainability of Agriculture in Europe”, (FP7-KBBE-2010-4/nº265394)
- b) 2011-2014, ATILA, “Transition pathways: assessing innovation in farm management strategies, Research Project (FCT-PTDC/CS-GEO/110944/2009)

Two projects supported by national funding were started:

- a)(2014 - ...) TREEMOVER – CONSTRUÇÃO DE PROTÓTIPO E ESTUDO DE METODOLOGIA CERTIFICADA ASSOCIADA À TRANSPLANTAÇÃO DE ÁRVORES - (PROJETO Nº. 34043)
- b)(2014 - ...) PRODER 52132 - ENSAIO de SOBREIROS (*Quercus suber* L.) EM MODO DE PRODUÇÃO INTENSIVA E FERTIRREGA

One project in collaboration with the Local Development Association MONTE was started: 2014-16, “A new deal for Youth Employment”, financed by the EEA grants (Norway and Finland)

Two Horizon 2020 large research projects, where the LDSP coordinates the Portuguese team is lead were approved for financing:

- a) SUFISA, “Sustainable finance for sustainable agriculture and fisheries”, EU project 635577, H2020-SFS-2014-2
- b) PEGASUS, “Public Ecosystems Goods and Services from land management – Unlocking the Synergies “, EU project 633814, H2020-ISIB-2014-2

The team organized the first meeting of the Mediterranean Working Group within the European Rural Sociology Association, and the Research Seminar “Researching societal processes in rural landscape dynamics” – both in December, in Évora.

Four PhD were concluded within the team:

Nuno Lecoq – “A Herdade da Contenda: Uma Paisagem Única como Paisagem de Referência”

Constança Camilo-Alves - “Studies on cork oak decline: an integrated approach”

João Rui Ribeiro – “Modelação do Crescimento do Pinheiro-Manso e a sua Aplicabilidade a nível da Paisagem – Aplicação à região da margem esquerda do Guadiana”

Cati Dinis – “Cork Oak (*Quercus suber* L.) Root System: a Structural-Functional 3D Approach”

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[9], [13], [39], [40], [47], [48], [51], [52], [53], [62], [88], [93], [96], [116], [117]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[3], [5], [6], [9], [16], [18], [19], [37], [51], [60], [61], [64]

PLANT GENETIC RESOURCES AND FUNCTIONAL MARKERS RESEARCH GROUP

INTEGRATED RESEARCHERS - 14

HEAD OF GROUP



Birgit Arnholdt-Schmitt (eu_chair@uevora.pt)

PhD in Plant Breeding, Institute for Applied Biology and Environment, JLU
Giessen, Germany

MAJOR INTERESTS / OBJECTIVES

The group seeks to promote interdisciplinary research that can be effectively applied in the development of innovative tools, strategies and technologies that will allow a new understanding of the agro-socio-economy systems and their sustainability towards promoting plant improvement and protection in Mediterranean crops. The ultimate drive is to address the growing need for sustainable crops under a changing environment.

The 14 integrated researchers had act independently in their teams, but with overlapping research interest, shown by common research. The two main research lines were 1) 'Plant Conservation, Improvement and Propagation' and 2) 'AOX Research and Functional Marker Development'.

1) Research focusing on plant conservation aimed at (a) in situ conservation programs of selected CWRs or landraces, towards eco-geographic and genetic diversity models by improving the germplasm collection in situ and in vivo; (b) geno- and phenotyping of model crops ; (c) characterization and morpho-agronomic evaluation and functional diversity of the genetic resources; (d) study adaptability of plants to artificial environments. Focusing on improvement and propagation, research aimed to (a) study in vitro propagation of walnut cultivars and rootstocks and the use of mechanical grafting; (b) produce of *Terfezia* sp.; (c) produce oak trees in mixed environments and under intensive regimes; (d) achieve wheat varieties tolerant to high temperatures and water stress; (e) obtain biofortified wheat varieties, by evaluation of genetic variability and supplementation, towards zinc and selenium accumulation capacity.

2) Focusing on alternative oxidase (AOX) and functional marker development, the group has (a) enhanced knowledge on natural AOX gene diversity in carrot and in arbuscular mycorrhizal fungi (AMF); (b) explored functionality of polymorphisms by AOX-transformed carrots (collaboration with India); (c) improved the quality of studying AOX exon, intron, and UTR polymorphisms by advancing bioinformatics; (d) developed appropriate technology for 'deep trait' phenotyping of AOX-polymorphic carrot and wheat genotypes (calorespirometry,

Knowledge connecting land, food and people

carbon isotope analyses); (e) start exploring a new single cell approach for target cell-based AOX functional marker development in carrot.

MAJOR SCIENTIFIC ACHIEVEMENTS / PUBLICATIONS

There was a reinforcement of the relation between the University of Évora (Molecular Biology Laboratory) and the University of Sussex - UK (Prof. Anthony Moore) in the frame of the project EXCL/AGR-PRO/0038/2012. This collaboration resulted in the establishment of a protocol of gene expression in yeast and subsequent enzymatic activity analyses through the measurement of oxygen consumption rates. Still related to the development and implementation of the experimental setups, and in the frame of the project EXPL/AGR-FOR/1324/2013, a system for production and propagation of arbuscular mycorrhiza and consequent functionality screening based on metabolic activity (calorespirometry) was optimized. To highlight as well, the strengthening of the collaboration between the group (via BG ISOPlexis, Madeira) and the Science and Natural History Museum (University of Lisbon) in a project financed by Global Crop Diversity Trust e Kew Garden on prospection of CWR of several relevant crops. Other achievements, more market focused are the request of services from several companies (Lab. de Melhoramento e Biotecnologia Vegetal). The following were initiated in 2014 and are foreseen to be kept in the following years: a. company 'Arvores da Vida' for in vitro propagation of walnuts; b. company 'Atlantic Sun Farms' for sanitary cleaning and pre-base material of sweet potato cultivars; c. company ARALAB, for a study on the effect of LED lights in plant growth chambers. Furthermore, the Group collaborated with the community by receiving students of high-schools in the laboratories, both in laboratory visits and to perform oriented experiments, also under the frame of the programme "SOU CIENTISTA" (Ciência Viva, ICAAM).

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[12], [33], [63], [92], [101], [109], [118], [122]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[3], [**14**], [**16**], [20], [22], [25], [31], [33], [47], [50]

HEAD OF GROUP



Mário Carvalho (mjc@uevora.pt)

Full Professor, PhD in Agricultural Sciences, Universidade de Évora

MAJOR INTERESTS / OBJECTIVES

The general goal of this research group is to improve the efficient use of production factors integrating two main areas of research: 1) Biology, epidemiology and diagnosis of pathogens and pests and their management and 2) Biology of plant beneficial microbes and its use in agricultural systems.

Under Mediterranean agriculture, *Olea europaea* warrants special attention. Specific studies addressed the molecular characterization of viruses and interactions with hosts aiming at understanding the mechanisms of virus silencing and engineering plant resistance, and on the molecular relationships with biotic and abiotic vectors in order to draft strategies to limit severe virus dissemination and to ensure phytosanitary quality of plant propagation material. This research appears as of particular importance as the olive crop has expanded highly in recent years being produced in super intensive regime, which is conducive to rapid dispersal of pathogen and pest propagules. In this regard the development of concepts and sustainable strategies for integrated production of the olive crop, aiming at reducing pesticide usage, while ensuring economic sustainability to farmers was a specific objective pursued.

Among several important plant-parasitic nematodes, the pinewood nematode, *Bursaphelenchus xylophilus* has recently been introduced in Portugal, devastating large areas of maritime pine forest. Investigation focused on the molecular characterization of plant-parasitic nematodes (PPN) and plant-nematode interactions, aiming at: understanding phylogenetic relationships, pathway analysis and putative pathogenic genes ("effectors"), and resistance; development of highly sensitive and reliable diagnostic methods for detection of PPN, in supplement to standard morphological methods; ecology of nematode-microbe systems, namely the pinewood nematode-bacteria interrelationships; biological control of nematodes.

Microorganisms included in the studies relative to the use plant beneficial microbes are the arbuscular mycorrhizal fungi (AMF), rhizobia, and other plant growth-promoting bacteria (PGPB). Studies involving AMF explored the potential of native population, its biological and functional diversity and an intact extra-radical mycelium as the preferential source of propagules. Research on the molecular bases of symbiotic effectiveness and stress tolerance

Knowledge connecting land, food and people

in native rhizobia contributes to the improvement and development of rhizobia as inoculants to promote plant growth and protection against biotic and abiotic stresses, under field conditions.

The ability of other PGPB to enhance plant growth and health, particularly in non-legume crops, is another issue addressed.

The use of consortia of these microorganisms is a major concern within the group, taking advantage of complementary mechanisms of protection like the ability of AMF to reduce the presence of the stressor together with the ability of some PGPB to reduce plant sensitivity (through the ACC deaminase activity) or to stimulate plant growth and its capacity to help the establishment of a successful symbiotic rhizobia-legume association under stress conditions.

MAJOR SCIENTIFIC ACHIEVEMENTS

This group is developing the research along two major lines: The biology of plant beneficial microbes and their use in agricultural systems and plant disease biology and pest management.

In terms of the use of beneficial microbes the focus has been the chickpea rhizobia and the use of native arbuscular mycorrhiza (AMF) in the bio protection of cultivated plants. The improvement of symbiotic performance and stress tolerance of chickpea rhizobia has been achieved by transformation with symbiosis or chaperone genes, thus contributing to the development of potential inoculants with enhanced performances. The construction of rhizobia knockout mutants has provided information on new genes involved in this symbiosis (Brígido et al 2012). The transcriptome analysis of rhizobia subjected to different stresses has improved our knowledge on stress response (Alexandre et al 2014; Laranjo et al 2014). The role of native AMF in bio protection was greatly enhanced by developing extra radical mycelium (ERM) in the soil by growing mycotrophic tolerant plants and keeping this ERM intact to functioning as preferential source of propagules to initiate the colonization of the plants to be protected. Moreover, the AMF biological diversity and its functional consequences can be managed by the choice of the Developer plant species (Brito et al., 2014 and Alho et al., 2015).

A survey of the four main viruses that infect grapevine, and that are subjected to quarantine rules, in important grapevine cultivars of Alentejo region, was performed and showed a great levels of virus infections. In relation to Olive trees the capability of necroviruses to be transmitted by the soil fungus *Olpidium virulentus* was tested and proved that this fungus intensifies the level of Olive mild mosaic virus infection in plants. Work was developed in order to characterize the Genetic variability of the coat protein gene of Olive latent virus 1, Olive mild mosaic virus and Tobacco necrosis virus D, and organization of their tridimensional structure, in order to identify viral genes that are silencing suppressors of necroviruses.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[2], [8], [10], [14], [15], [28], [30], [34], [37], [38], [44], [59], [60], [63], [67], [68], [71], [72], [75], [76], [78], [79], [80], [92], [94], [99], [118], [119], [120], [121], [123], [124], [127]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[3], [15], [27], [35], [38], [40], [44], [45], [49], [53], [54], [55], [59]

HEAD OF GROUP



Gottlieb Basch (gb@uevora.pt)

Associate Professor, PhD in Agricultural Sciences, University of Göttingen

MAJOR INTERESTS / OBJECTIVES

Today, much more than in the past, any form of use of natural resources, whether agricultural, urban or other, must pay respect and comply with the most efficient use of these resources, above all, soil and water. “To must produce more from less” is the goal of the research group SWC. The group targets its research so that crops and plants become more efficient on the use of water, nutrients and radiation and more tolerant when submitted to biotic and abiotic stresses, with the vision that this will be the only way to ensure food security and reduce the impacts of an intensive agriculture on the environment. With a mission that natural resources such as water and the soil should also be well managed for long-term sustainability and as a legacy for future generations, as external inputs, mainly in the form of water and nutrients become scarce and more and more expensive, the group members find it imperative to improve both blue and green water use in agriculture and to enhance soil health and fertility, to reduce the need for external nutrient inputs and to foster the soil’s capacity to deliver its manifold ecosystem services.

To contribute to sustainable production intensification through improved soil and water management under the constraints and variability of Mediterranean climate conditions is in a nutshell the overall long-term objective of this research group. Bearing this goal in mind the SWC group proposes to do research and develop individual and complementary work in intelligent irrigation systems, smart hydraulics and adaptive control of hydraulic systems, efficient crop water needs and soil water management through crop transpiration modelling and strategic irrigation scheduling. The group has also work in watershed planning and management, hydrology and statistical modelling, as well as in monitoring and risk forecasting. Horticulture production and the efficient use of nutrients and fertilizers, soil organic carbon dynamics, as well as the impact of climate on soil and water conservation and in watershed planning and on the economics of important Mediterranean crops are also complementary work that the SWC supports to better contribute to the enhancement of agriculture in the Alentejo region of Portugal.

MAIN RESEARCH AREAS

- Influence of long-term soil tillage, residue management and external nutrient input on soil organic matter dynamics and overall soil fertility;
- Modelling of soil temperature variations to quantify rates of chemical and biological processes occurring in the soil (e.g., mineralization, humification, ...);
- Optimization of the use of irrigation water for intensive and super-intensive orchards and recommendation of sound irrigation scheduling techniques through the innovative approach of combining remote sensing information from multispectral satellites orbiting the earth and in situ bio-sensors placed in trees.
- Irrigation water management to optimize the ripening season and economical returns of horticultural crops.
- Optimization of intelligent irrigation systems (under development);
- Study of the impact of climate change scenarios on irrigation water needs in the Mediterranean.
- Definition of universal flow controllers for irrigation canals and application of model predictive controllers to irrigation canals;
- Study of Climate Change impacts on southern Portugal water availability

MAJOR SCIENTIFIC ACHIEVEMENTS / PUBLICATIONS

Besides the publications and project participations by members of the SWC group (listed below) it is worthwhile mentioning the conclusion of the project on the “Study of Climate Change Impact on the Management of the Water Resources of the Guadiana River Basin”, the start of a study on the “Optimization of irrigation based on solar energy to maximize the irrigated area and minimize investment costs”, and the approval of a H2020 European Research Project (Call SFS-4: Soil Quality and function) with one SWC member as WP leader.

ISI / SCOPUS PUBLICATIONS

(Numbers referring to the complete list in the Annex)

[29], [65], [73], [81], [89], [103], [104], [105], [106], [107], [108], [114]

RESEARCH PROJECTS

(Numbers referring to the complete list in the Annex)

RUNNING IN 2014 (PROJECTS STARTED IN 2014 ARE INDICATED IN BOLD)

[1], [4], [10], [13], [18], [25], [26], [29], [32], [34], [36], [42], [47], [48], [49], [58], [61], [66]

PHD AND INTERNATIONAL MASTERS PROGRAMMES

ICAAM is the hosting unit of six PhD Programmes and one Erasmus Mundus Master Programme:

- PhD Programme in Agrarian Sciences
- PhD Programme in Biology
- PhD Programme in Environmental and Territory Engineering Sciences
- PhD Programme in Environmental Sciences
- PhD Programme in Interdisciplinary Landscape Management
- PhD Programme in Veterinarian Sciences
- "Erasmus Mundus" EUMAINE: European Master in Nematology

In 2014, the number of registered students for each PhD Programme is the following:

PhD Programme	PhD students in 2014
PhD Programme in Agrarian Sciences	21
PhD Programme in Biology	34
PhD Programme in Environmental and Territory Engineering Sciences	6
PhD Programme in Environmental Sciences	18
PhD Programme in Interdisciplinary Landscape Management	11
PhD Programme in Veterinarian Sciences	14

SCIENCE AND SOCIETY

ACHIEVEMENTS AND ACTIVITIES

ICAAM assumes a strong commitment with the community, recognising the potential impact of innovation and technology transfer in the development of sustainable agriculture in Mediterranean regions and the key relevance of science communication to stimulate public awareness, knowledge and excitement around Agricultural and Environmental Sciences. ICAAM's "Office for Communication, Technology Transfer and Innovation" (UDIT - "Unidade de Divulgação e Inovação Tecnológica") is fully dedicated to the dissemination of the activities of ICAAM and its researchers and Research & Development results.

UDIT is responsible for the communication of the scientific and technologic achievements of ICAAM researchers to the media and the general public. This has been done using several dissemination tools such as the ICAAM's website (www.icaam.uevora.pt) and Facebook page or the release of dedicated information to the media and specific publics. A trimestral newsletter was produced and distributed to disseminate the activities of ICAAM among our stakeholders and the community.

In 2014, ICAAM carried out a number of outreach initiatives targeting schools and the general public.

The project "Sou Cientista" ("I am a Scientist"), financed by the National Agency for Scientific and Technological Culture, Ciência Viva, brought high school Biology students and teachers in close contact with "real" science and researchers, with the main goal of motivating the students for Science and promoting the Scientific Culture in school and community. The project took place during 2 consecutive school years and included the realization of short traineeships by 12th grade students at ICAAM laboratories (72 students) accompanied by researchers (17 researchers involved) and integrated in the Biology class curriculum; the presentation of the projects' results in open seminars; and one professional training course for teachers (16 teachers involved).

In addition, ICAAM received several visits from basic- and high-school students that visited the laboratories and performed hands-on activities accompanied by ICAAM researchers.

Four students from the technical-professional course "Laboratory Analysis Technician" did their professional traineeship (3 months training in a work context) in the laboratories of ICAAM.

The participation in the Ciência Viva "Ocupação Científica de Jovens nas Férias" programme (traineeships for high school students in science institutions) brought to ICAAM 13 students, that spent one week in 4 of our laboratories working in close contact with our researchers. The "Ciência Viva no Verão" involved close to one hundred participants in 9 outdoor activities for families.

ICAAM was present in *FICOR* and *Feira do Montado* fairs, where dissemination materials about research in *Montado* were distributed and several activities for schools and for the general public were carried out.

SUPPORT SERVICES – INFRASTRUCTURES

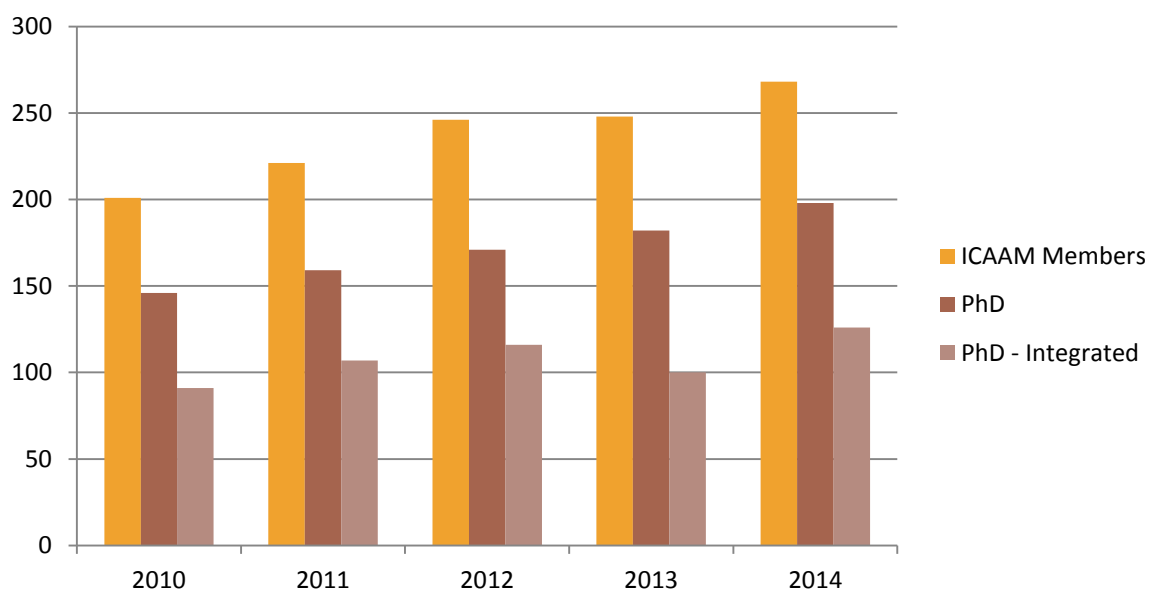
FULL LIST AND HEADS OF INFRASTRUCTURES

1. **Laboratory Area: Food Technology and Nutrition** - Maria João Cabrita, Assistant Professor
 - 1.1. **Oenology Laboratory** - Maria João Cabrita, Assistant Professor
 - 1.2. **Technology and Quality of Regional Products Laboratory** - Cristina Maria Pinheiro, Assistant Professor
 - 1.3. **Technolog and Post-Harvest Laboratory** - Ana Elisa Rato, Assistant Professor
 - 1.4. **Nutrition and Metabolism Laboratory** - Maria Isabel Mendonça Rato, Assistant Researcher
2. **Laboratory Area: Animal Physiology, Health and Behavior** - Fernando Capela e Silva, Assistant Professor
 - 2.1. **Palynology and Aerobiology Laboratory** - Fernando Capela e Silva, Assistant Professor
 - 2.2. **Applied Animal Physiology Laboratory** - Fernando Capela e Silva, Assistant Professor
 - 2.3. **Victor Caeiro Parasitology Laboratory** - Helder Cortes, Assistant Professor
 - 2.4. **Microbiology Laboratory** - Cristina Queiroga, Assistant Professor
 - 2.5. **Reproduction and Lactation Laboratory** - Rui Charneca, Assistant Professor
3. **Laboratory Area: Soils and Water** - Shakib Shahidian, Assistant Professor
 - 3.1. **Physics of Soils Laboratory** - Rui Machado, Assistant Professor
 - 3.2. **Hydrology and Hydraulics Laboratory** - Shakib Shahidian, Assistant Professor
4. **Laboratory Area: Landscapes, Ecosystems and Biodiversity** - João Rabaça, Assistant Professor
 - 4.1. **Botany Laboratory** - Maria Paula Simões, Assistant Professor
 - 4.2. **Plant Physiology Laboratory** - Renato Coelho, Assistant Professor
 - 4.3. **Ornithology Laboratory (LabOr)** - João Rabaça, Assistant Professor
5. **Laboratory Area: Valorization of Genetic Resources and Plant Protection** - Fernando Rei, Assistant Professor
 - 5.1. **Plant Breeding and Biotechnology Laboratory** - Augusto Peixe, Assistant Professor
 - 5.2. **Molecular Biology Laboratory** - Birgit Arnholdt-Schmitt, Coordinating Researcher
 - 5.3. **Plant Virology Laboratory** - Maria Ivone Clara, Full Professor
 - 5.4. **Nematology Laboratory (NemaLab)** - Manuel Mota, Assistant Professor with Aggregation
 - 5.5. **Entomology Laboratory** - Fernando Rei, Assistant Professor
 - 5.6. **Soil Microbiology Laboratory** - Solange Oliveira, Assistant Professor
6. **Experimental Area** - Augusto Peixe, Assistant Professor
 - 6.1. **Plant Growing Chambers** - Augusto Peixe, Assistant Professor
 - 6.2. **Ultra-low Freezers** - José Manuel Martins, Assistant Professor
 - 6.3. **Olive Oil Experimental Plant** - Miguel Elias, Assistant Professor
 - 6.4. **Animal Experimentation** - Elvira Sales Baptista, Assistant Professor
 - 6.5. **Advanced Microscopy** - Orlando Lopes, Assistant Professor
 - 6.6. **Geotechnology Equipment** - José Rafael, Assistant Professor with Aggregation
 - 6.7. **Greenhouses Complex** - Rui Machado, Assistant Professor
 - 6.8. **Plant Material Processing** - José Calado, Assistant Professor
 - 6.9. **Field Equipment** - Margarida Vaz, Assistant Professor
 - 6.10. **Experimental Plots** - Luís Gazarini, Associate Professor

STATISTICS

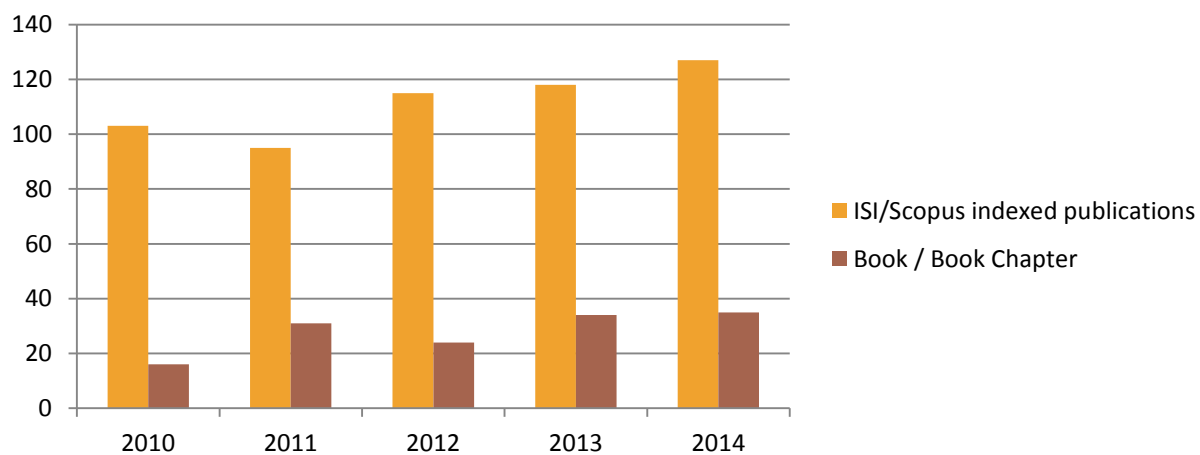
PROGRESS IN THE LAST 5 YEARS

RESEARCHERS



PUBLICATIONS

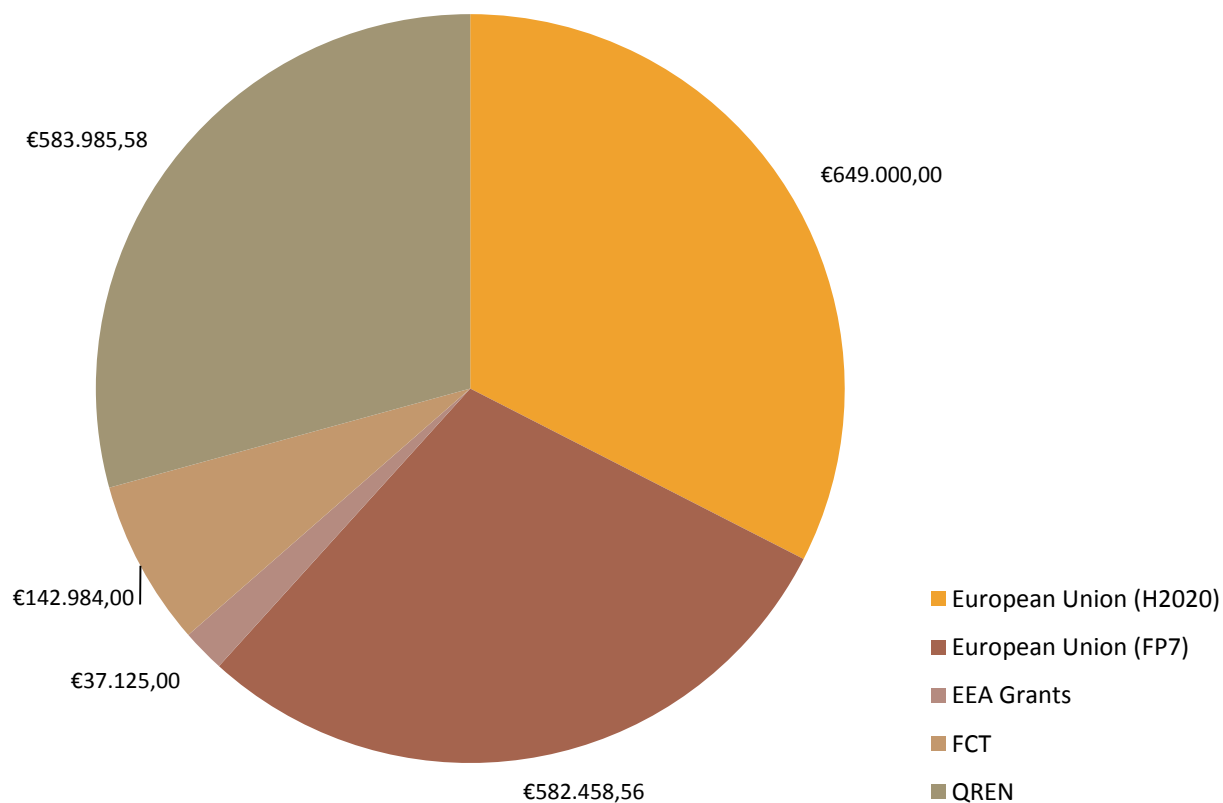
(Accepted publications not included)



RESEARCH FUNDING

(Projects started in 2014, by funding source)

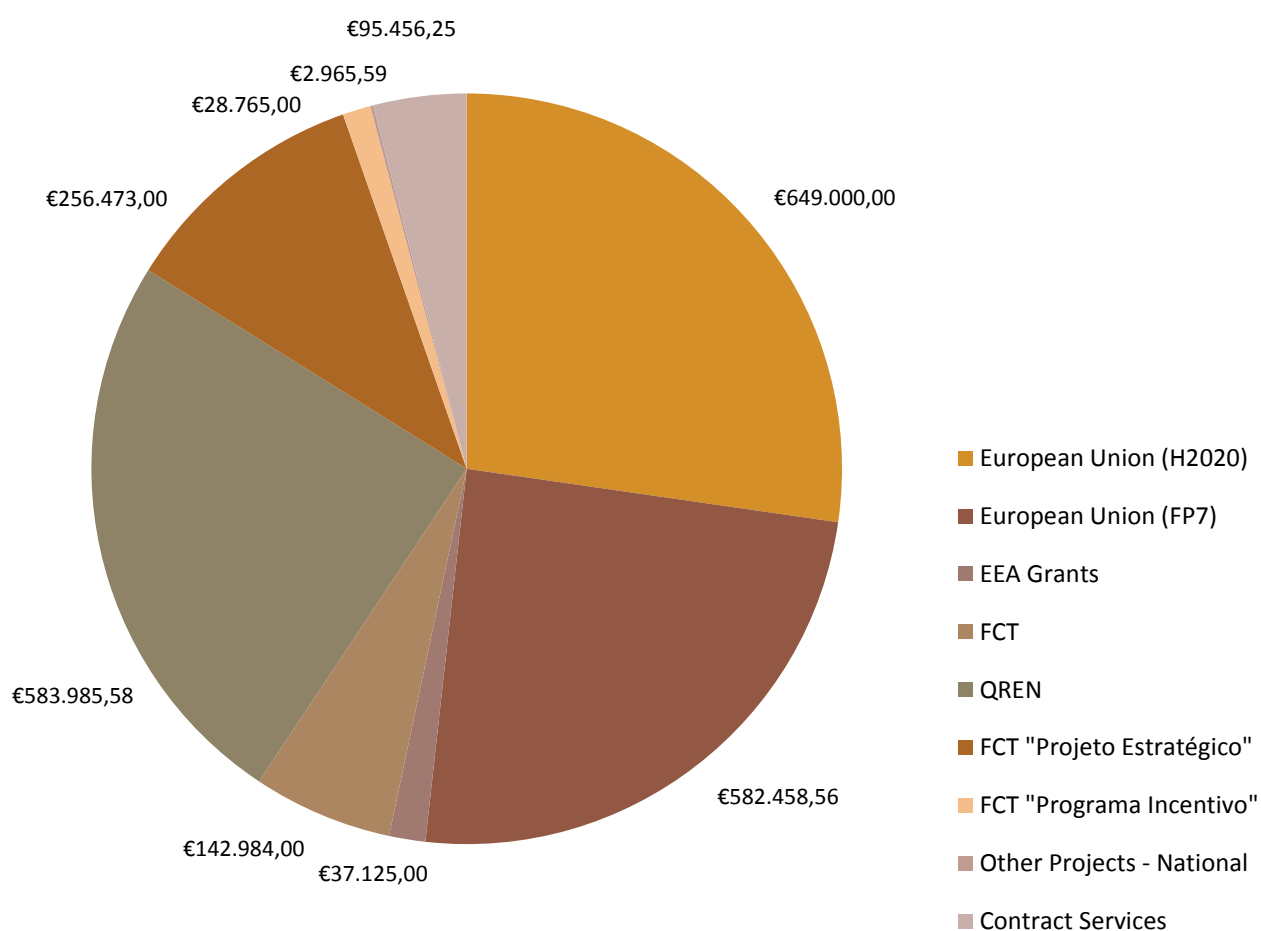
European Union (H2020)	649.000,00 €
European Union (FP7)	582.458,56 €
EEA Grants	37.125,00 €
FCT	142.984,00 €
QREN	583.985,58 €
TOTAL	583.985,58 €



TOTAL BUDGET

European Union (H2020)	649.000,00 €
European Union (FP7)	582.458,56 €
EEA Grants	37.125,00 €
FCT	142.984,00 €
QREN	583.985,58 €
FCT "Projeto Estratégico"	256.473,00 €
FCT "Programa Incentivo"	28.765,00 €
Other Projects - National	2.965,59 €
Contract Services	95.456,25 €

TOTAL 2.379.212,98 €



EVALUATION

FCT 2014 evaluation: INSTITUTO DE CIÊNCIAS AGRÁRIAS MEDITERRÂNICAS - ICAM [AGR-ALENTEJO-EVORA-115]

Classification: **Good (under revision)**

ANNEXES

FULL LIST OF ICAAM MEMBERS

(1st January - 31st December 2014)

DIRECTION

DIRECTOR

Maria Teresa Pinto Correia, Professora Auxiliar com Agregação

VICE-DIRECTORS

Augusto António Vieira Peixe, Professor Auxiliar

Elvira Sales Baptista, Professora Auxiliar

Gottlieb Basch, Professor Associado

MANAGEMENT SUPPORT

ADMINISTRATIVE MANAGEMENT

Manuel Luís Brandão, Secretariat

Luís Cláudio Arraiano, Secretariat

OFFICE FOR COMMUNICATION, TECHNOLOGY TRANSFER AND INNOVATION (UDIT)

Joana Perdigão, PhD, Coordinator

RESEARCH

Integrated Researchers - 117

PhD students - 49

Technicians - 8

ANIMAL BIOSCIENCES RESEARCH GROUP

Integrated Researchers - 24

PhD students - 12

Technicians - 4

Knowledge connecting land, food and people

Fernando Manuel Salvado Capela e Silva,
Professor Auxiliar

Alfredo Manuel Franco Pereira, *Professor Auxiliar*

Amadeu António Gomes Borges de Freitas,
Professor Auxiliar

Ana Carina Alves Pereira de Mira Geraldo, *Post-Doc*

Ana Cristina Bugalho Oliveira Rodrigues Costa,
Professor Auxiliar

Ana Maria Monteiro Ferreira, *Post-Doc*

António Manuel Neto Vaz, *Professor Auxiliar*

António Manuel Oliveira Coelho Murilhas, *Professor
Auxiliar*

Artur Armando Moura Marinho, *Professor
Associado*

Carina Luísa da Costa Carvalho, *PhD student*

Catarina Falcão Trigo Vieira Branco Lavrador,
Professor Auxiliar

Cristina Maria dos Santos Conceição Pinheiro,
Professor Auxiliar

Célia Maria Miguel Antunes, *Professor Auxiliar*

Elisa Maria Varela Bettencourt, *Professor Auxiliar*

Elsa Cristina Carona de Sousa Lamy, *Investigador
FCT*

Elsa Maria Leclerc Duarte, *Professor Auxiliar*

Elsa Rute Guerra Caeiro, *Investigador*

Helder Carola Espiguinha Cortes, *Professor Auxiliar
Convidado*

Isabel Maria Simão Alves Pereira Ferreira, *Professor
Auxiliar*

Joana Manuela Capela Pires, *PhD student*

José Alberto Caeiro Potes, *Professor Associado c/
Agregação*

José António Lopes de Castro, *Professor Auxiliar*

José Luís Tirapicos Nunes, *Professor Associado c/
Agregação*

Júlio Manuel da Cruz Morais, *Professor Catedrático
(retired)*

Liliana Machado Ribeiro da Silva, *Researcher, Justus
Liebig University Giessen*

Ludovina Neto Padre, *Professor Auxiliar*

Luís Filipe Marques Ribeiro Teixeira da Costa, *Post-
Doc*

Luís Miguel Lourenço Martins, *Professor Auxiliar*

Luísa Maria Dotti Silva Pereira Raimundo, *Assistente*

Lénia Isabel Alfaiate Rodrigues, *PhD student*

Manuel D'Orey Cancela D'Abreu, *Professor
Associado c/ Agregação*

Maria Cristina Calhau Queiroga, *Professor Auxiliar*

Maria Elvira Lourido de Sales Baptista, *Professor
Auxiliar*

**Maria Isabel Soares de Albergaria Ferraz de Oliveira
Mendonça Rato,** *Post-Doc*

Maria José Calado Vila-Viçosa, *Professor Auxiliar*

Maria João Martins Vila-Viçosa, *Technician, PhD
student*

Maria Manuela Clemente Vilhena, *Professor Auxiliar*

Maria Teresa Carvalho Oliveira, *PhD student*

Maria Teresa Freitas Ferreira Tinoco, *Professor
Auxiliar (retired)*

Maria da Graça Janeiro Machado, *Technician*

Maria de Fátima Bastos Candeias, *Technician*

Maria do Rosário Caeiro Martins, *Professor Auxiliar*

Marta Sofia Garcia Candeias, *PhD student*

Knowledge connecting land, food and people

Marízia Clara de Menezes Dias Pereira, *Professor Auxiliar*

Mónica Alexandra Freire Cardoso de Mira, *PhD student*

Mónica de Oliveira Ribeiro Machado Pedroso de Lima, *Technician*

Nuno Miguel Lourenço Alexandre, *Professor Auxiliar*

Ofélia Pereira Bento, *Professor Associado c/ Agregação*

Orlando da Silva Lopes, *Professor Auxiliar*

Raquel Sofia Lopes Ferro, *Technician*

Ricardo Jorge da Costa Trindade Palmeiro Romão, *Assistente*

Rui Manuel Almeida Brandão, *Professor Auxiliar c/ Agregação*

Rui Manuel Alves Ferreira, *Professor Associado*

Rui Miguel Carracha Charneca, *Professor Auxiliar*

Rute Isabel Duarte Guedes dos Santos, *Professor Adjunto*

Sandra Maria da Silva Branco, *Professor Auxiliar*

Saúl José Semião Santos, *Post-Doc*

Sofia do Carmo Carvalho Goulão Capelo, *Professor Auxiliar*

Susana Oliveira Serrano Monteiro, *PhD student*

Sílvia Alexandra Macedo Arantes, *PhD student*

Sónia Félix Vilas Boas de Lucena, *PhD student*

Vanda Gonçalves dos Santos, *PhD student*

ECOSYSTEMS FUNCTIONING AND CONSERVATION RESEARCH GROUP

Integrated Researchers - 16

PhD students - 7

Technicians - 1

Maria Paula Duarte Simões, *Professor Auxiliar*

Alexandre Roulin, *Professor Associado, University of Lausanne*

Ana Cristina Pereira da Cruz Galantinho, *PhD student*

Ana Lumbreras Corujo, *Post-Doc*

Ana Margarida Casimiro Ferreira Marques, *Research Fellow*

Anabela Dias Ferreira Belo, *Professor Auxiliar*

António Paulo Pereira Mira, *Professor Auxiliar*

António Pedro de Avelar Gonçalves Santos, *Professor Auxiliar*

Bárbara Afonso Pires, *PhD student*

Carla Sofia Borges Pinto da Cruz Ferreira, *Professor Auxiliar*

Carlos António Marques Pereira Godinho, *PhD student*

Carlos José Pinto Gomes, *Professor Auxiliar c/ Agregação*

Celeste Maria Martins Santos e Silva, *Professor Auxiliar*

Corina Luísa Videira de Abreu Fernandes Carranca, *Researcher, INIAV*

Inês Margarida Ferreira Roque, *PhD student*

Isabel Maria Henriques Pires Pereira, *Professor Auxiliar*

Jorge Manuel da Silva Delgado Nunes, *Researcher*

Knowledge connecting land, food and people

João Eduardo Morais Gomes Rabaça, *Professor Auxiliar*

Júlio Armando Perestrelo da Cunha Osório, *Professor Auxiliar, Universidade do Algarve*

Júlio César Lima, *Researcher*

Luiz Carlos Gazarini, *Professor Associado*

Luís Alexandre Piteira Gomes, *Post-Doc*

Margarida Maria de Almeida Vaz, *Professor Auxiliar*

Maria Antónia Pacheco Ilhéu, *Professor Auxiliar*

Maria Otília Ferreira Miralto, *Technician*

Marisa Isabel da Silva Gomes, *PhD student*

Paula Rute Pereira Matono Alves, *Post-Doc*

Paula Virgínia Serra Parreira Banza, *PhD student*

Paulo Alexandre da Cunha e Sá de Sousa, *Professor Auxiliar*

Renato Ruas Pereira Coelho, *Professor Auxiliar*

Rogério Filipe Agostinho Louro, *PhD student*

Rui Nascimento Fazenda Lourenço, *Post-Doc*

FARMING TECHNOLOGY AND ENERGY EFFICIENCY RESEARCH GROUP

Integrated Researchers - 8
PhD students - 1

José Manuel Nobre de Oliveira Peça, *Professor Associado*

Adélia Maria Oliveira Sousa, *Professor Auxiliar*

Anacleto Cipriano Pinheiro, *Professor Associado*

António Fernando Bento Dias, *Professor Auxiliar*

Fátima de Jesus Folgôa Baptista, *Professor Auxiliar*

José Rafael Marques da Silva, *Professor Auxiliar c/ Agregação*

João Manuel Pereira Ramalho Serrano, *Professor Auxiliar*

Luís Alcino Pinto Monteiro da Conceição, *Professor Adjunto Instituto Politécnico de Portalegre, PhD student*

Luís Leopoldo de Sousa e Silva, *Professor Auxiliar c/ Agregação*

Maria Maurícia Caeiro Rosado, *Professor Auxiliar*

Vasco Manuel Fitas da Cruz, *Professor Associado*

FOOD SCIENCE AND TECHNOLOGY RESEARCH GROUP

Integrated Researchers - 13
PhD students - 5
Technicians - 1

Miguel Nuno Geraldo Viegas Santos Elias,
Professor Auxiliar

Amílcar Manuel Marreiros Duarte, *Professor Auxiliar, Universidade do Algarve*

Ana Cristina Pinto Agulheiro Santos, *Professor Auxiliar*

Ana Elisa de Mendonça Rato Barroso, *Professor Auxiliar*

Ana Margarida de Sousa Prado Fernandes da Graça,
PhD student

Ana Maria Ferreira da Silva da Costa Freitas,
Professor Associado c/ Agregação

Ana Teresa da Cunha Machado Ribeiro, *Professor Adjunto, Instituto Politécnico de Santarém, PhD student*

Knowledge connecting land, food and people

Antónia Maria Soares Prates Oliveira, *Technician*

Bruno Miguel Oliveira Soares, *PhD student*

Igor Alexandre da Silva Dias, *Assistente, Instituto Politécnico de Santarém, PhD student*

Ilda Maria Justino Caldeira, *Researcher, INIAV*

José Alberto Feijão Macedo Neves, *Professor Auxiliar*

José Manuel Mota Ruivo Martins, *Professor Auxiliar*

João Miguel Ferreira da Rocha, *Post-Doc*

Maria Eduarda Marques Madeira Silva Potes, *Professor Auxiliar*

Maria João Marinho Lança Silva Almeida, *Professor Auxiliar*

Maria João Pires de Bastos Cabrita, *Professor Auxiliar*

Marta Sofia Serrano Valente Casimiro Ferreira Laranjo, *Post-Doc*

Miguel Salazar, *Researcher*

Nuno Miguel Costa Martins, *PhD student*

Pat J. Sandra, *Researcher*

Raquel Marta Neves dos Santos Garcia, *Post-Doc*

Sara Maria de Almeida Lopes Canas, *Researcher, INIAV*

LANDSCAPE DYNAMICS AND SOCIAL PROCESSES RESEARCH GROUP

Integrated Researchers - 13

PhD students - 9

Nuno Manuel Cabral de Almeida Ribeiro,
Professor Auxiliar

Ana Cristina Andrade Gonçalves, *Professor Auxiliar c/ Agregação*

Ana Margarida Pinto da Fonseca, *PhD student*

Carla Maria Gomes Azeda, *PhD student*

Carla Sofia Dávila Soares Gonzalez, *Post-Doc*

Carlos António Bastos de Morais Guerra, *PhD student*

Cati Oliveira Dinis, *Post-Doc*

Cecília Isabel Justino Fonseca, *Research Fellow*

Constança de Sampaio e Paiva de Camilo Alves,
Post-Doc

Diana Surova, *Post-Doc*

Fernando Paulo de Sousa e Sá Correia Marques,
Professor Auxiliar

Guida Maria Faria Gomes, *PhD student*

Isabel Alexandra Joaquina Ramos, *Professor Auxiliar*

Isabel Maria Gomes Rodrigo, *Professor Associado c/ Agregação, Instituto Superior de Agronomia da Universidade de Lisboa*

Isilda Augusta Luís Pereira da Cunha Menezes, *PhD student*

João Manuel Dias dos Santos Pereira, *Professor Catedrático, Instituto Superior de Agronomia da Universidade de Lisboa (retired)*

João Paulo Tavares Almeida Fernandes, *Professor Associado*

Luís António Domingues dos Santos Fernandes,
Professor Auxiliar

Luís Filipe Lucas Barroso, *PhD student*

Mara Elisabete da Silva Almeida, *Research Fellow*

Maria Helena Marques Enes Guimarães, *Post-Doc*

Maria Leonor Pimenta Marques Verdete da Silva Carvalho, *Professor Associado*

Maria Manuela Antunes Marques David, *Professor Associado, Universidade do Algarve*

Maria Teresa Amado Pinto Correia, *Professor Auxiliar c/ Agregação*

Maria Teresa Folgôa Batista, *Professor Auxiliar*

Knowledge connecting land, food and people

Maria da Conceição Martins Lopes de Castro,
Professor Auxiliar

Miguel Ângelo Silva Pereira, *Researcher*

Nuno Ricardo Gracinhas Nunes Guiomar, *PhD student*

Pedro Damião de Sousa Henriques, *Professor Associado*

Peter Surovy, *Post-Doc*

Rui Daniel Parreira Machado, *PhD student*

Rui Manuel de Sousa Fragoso, *Professor Auxiliar c/ Agregação*

Sérgio Rui Borreicho Coelho Godinho, *PhD student*

Sónia Maria Carvalho Ribeiro, *Post-Doc*

PLANT GENETIC RESOURCES AND FUNCTIONAL MARKERS RESEARCH GROUP

Integrated Researchers - 14

PhD students - 5

Birgit Arnholdt-Schmitt, *Investigador
Coordenador c/ Agregação*

Amaia Miren Nogales Garcia, *Post-Doc*

Ana Rita Pereira da Costa, *Researcher, INIAV*

António Miguel da Costa Magriço Frederico, *PhD student*

Augusto António Vieira Peixe, *Professor Auxiliar*

Carla Aparecida Ragonezi Gomes Lopes, *Post-Doc*

Carlos Noceda Alonso, *Post-Doc*

Debabrata Sircar, *Researcher*

Elisete Santos Macedo, *Post-Doc*

Hélia Cristina Guerra Cardoso, *Post-Doc*

Isabel de Jesus Pereira Godinho Velada, *Post-Doc*

Jan Jacek Slaski, *Researcher, Universidade da Madeira*

Jan Tommy Svensson, *Researcher*

Joaquim Manuel Efe Serrano, *Professor Associado c/ Agregação (retired)*

José Filipe Teixeira Ganança, *PhD student*

José Francisco Calado Barros, *Professor Auxiliar*

José Manuel Godinho Calado, *Professor Auxiliar*

João Manuel Mota Barroso, *Professor Associado*

Mahnaz Khadem, *Professor Auxiliar, Universidade da Madeira*

Maria Amely Zavattieri, *Professor Auxiliar*

Maria Catarina Murteira Rico dos Santos Campos, *Post-Doc*

Maria Doroteia Murteira Rico da Costa Campos, *PhD student*

Maria Ermelinda Vaz Lourenço, *Professor Catedrático (retired)*

Maria Isabel Carrasquinho de Freitas, *Researcher, INIAV*

Miguel Ângelo Almeida Pinheiro de Carvalho, *Professor Associado c/ Agregação, Universidade da Madeira*

Rajeev Kumar Sarma, *Researcher*

Sara Alexandra Pedras Porfírio, *PhD student*

Susana Maria Gouveia e Sá Ventura Fontinha, *Post-Doc*

Teresa Maria Marques dos Santos, *PhD student*

Tânia Mesquita Nobre, *Research Fellow (Carrer Development Fellowship)*

Vera Mónica Piegas Valadas, *Post-Doc*

PLANT PROTECTION RESEARCH GROUP

Integrated Researchers - 20

PhD students - 7

Mário José Gouveia Pinto Rodrigues Carvalho,
Professor Catedrático

Alexandra Rosa da Costa, *Professor Auxiliar*

Ana Isabel Pereira Alexandre, *Post-Doc*

Ana Isabel do Paço Teixeira, *Post-Doc*

Ana Paula Honrado Pinto, *Professor Auxiliar*

Annemarie Carola Meierrose de Araújo, *Professor Associado (retired)*

Bruno Emanuel Duarte Ribeiro, *Research Fellow*

Carla Marisa Reis Varanda, *Post-Doc*

Carlos Gutiérrez Gutiérrez, *Investigador FCT*

Clara Martins Caldeira da Ponte e Sousa, *PhD student*

Clarisse Cordeiro Brígido, *Post-Doc*

Cláudia Sofia Leite Vicente, *Post-Doc*

Dora Maria Fonseca Martins Ginja Teixeira,
Professor Auxiliar

Fernando Celso Eufigénio Eliziário, *PhD student*

Fernando Manuel de Campos Trindade Rei,
Professor Auxiliar

Florinda Maria Martins Gama, *PhD student*

Francisco Luís Mondragão Rodrigues, *Professor Coordenador, Instituto Politécnico de Portalegre*

Francisco Xavier Inês Nascimento, *PhD student*

Gustavo Nuno Barbosa Nolasco, *Professor Catedrático c/ Agragação, Universidade do Algarve*

Isabel Maria Oliveira Brito, *Professor Auxiliar*

Isabel Solange Martins de Oliveira, *Professor Auxiliar*

José Rodrigo da Silva, *PhD student*

Luís Manuel Cardoso Vieira Alho, *Professor Auxiliar*

Luísa Isabel Guerreiro David Coelho, *Researcher*

Lídia Adelina Pó Catalão Dionísio, *Professor Auxiliar, Universidade do Algarve*

Manuel Galvão de Melo e Mota, *Professor Auxiliar c/ Agregação*

Margarida Maria Cabral Lages Azevedo Santana,
Researcher

Maria Ivone Esteves da Clara, *Professor Catedrático (retired)*

Maria Margarida Saial Santos Guiomar Espada, *PhD student*

Maria do Rosário Fernandes Félix, *Professor Auxiliar*

Maribela Fátima Oliveira Pestana Correia, *Professor Auxiliar, Universidade do Algarve*

Miguel Eugénio Galvão de Melo e Mota,
Investigador Coordenador (retired)

Mário José Gouveia Pinto Rodrigues Carvalho,
Professor Catedrático

Mário Manuel Ferreira dos Reis, *Professor Auxiliar, Universidade do Algarve*

Mônica Danielly de Mello Oliveira, *Post-Doc*

Nádia Filipa Martins Silva, *PhD student*

Paulo Cezanne Reis Vieira, *Post-Doc*

Pedro José Realinho Gonçalves Correia, *Professor Associado, Universidade do Algarve*

Pedro Miguel de Sousa Barbosa, *Research Fellow*

SOIL, WATER AND CLIMATE RESEARCH GROUP

Integrated Researchers - 9

PhD students - 4

Technicians - 2

Gottlieb Basch, Professor Associado

Alice de Fátima Palma Fernandes Ramos, Researcher

Artur António de Almeida Portela, Professor Catedrático

Camila Borges António Tufik, PhD student

**Carlos Alberto Correia Guerrero, Professor Auxiliar,
Universidade do Algarve**

Carlos Alberto de Jesus Alexandre, Professor Auxiliar

Carlos Manuel Miranda Rodrigues, Professor Auxiliar

**Carlos Otero Águas da Silva, Assistente, Universidade do
Algarve, PhD student**

**Cristina Maria Mendes Andrade, Professor Adjunto,
Instituto Politécnico de Tomar**

Célia Maria do Carmo Toureiro, Researcher

**Elsa Paula Figueira Ferreira Morgado de Sampaio,
Professor Auxiliar**

**Francisco Lúcio Reis Borges Brito dos Santos, Professor
Associado c/ Agregação**

Gottlieb Basch, Professor Associado

Joana Vaz de Sousa, Post-Doc

José Alexandre Varanda Andrade, Professor Auxiliar

José Júlio Braga Correia da Silva, Professor Auxiliar

**João Alexandre Medina Côte-Real, Professor Catedrático
(retired)**

**Luiz Carlos Guerreiro Lopes, Professor Auxiliar,
Universidade da Madeira**

Manuel Rijo, Professor Associado c/ Agregação

**Maria Madalena Vítório Moreira Vasconcelos, Professor
Auxiliar**

**Maria de Lourdes Alves Pimenta Silva Pinheiro,
Technician**

**Maria do Rosário Gamito de Oliveira, Professor
Catedrático (retired)**

**Paulo Alexandre Justo Fernandez, Professor Adjunto,
Instituto Politécnico de Castelo Branco, PhD student**

Pedro Frazão Alpendre, Professor Auxiliar

Regina Célia Santos Costa Corte Real, Technician

**Ricardo Joaquim Murteira de Carvalho Freixial, Professor
Auxiliar**

Ricardo Paulo Serralheiro, Professor Catedrático (retired)

**Rita Cabral Pereira de Castro Guimarães, Professor
Auxiliar**

Rong Zhang, PhD student

Rui Manuel de Almeida Machado, Professor Auxiliar

**Sandra de Jesus Martins Mourato, Professor Adjunto,
Instituto Politécnico de Leiria**

Shakib Shahidian, Professor Auxiliar

RESEARCH PRODUCTION

RESEARCH PROJECTS

(running in 2014; started in 2014 indicated in bold)

- [1] **ProTomate - Proder 43285, ProTomate - desenvolvimento de uma nova ferramenta de apoio à gestão da cultura do tomate para garantia da qualidade do produto final, 31-12-2014, 31-12-2014, QREN, Proder**
- [2] **COST FA 1105 - Biogreenhouse, Towards a sustainable and productive EU organic greenhouse horticulture, 19-12-2014, 18-04-2016, Comissão Europeia, Ações COST**
- [3] **Prod Sobreiros Povoamentos Mistos - 57162, Produção de sobreiros em povoamentos mistos - Eucalipto e Pinheiro Manso enxertado, 26-11-2014, 13-06-2017, QREN, Proder**
- [4] **iSQAPER, Interactive Soil Quality Assessment in Europe and China for Agricultural Productivity and Environmental Resilience, 21-11-2014, 31-12-2020, Comissão Europeia, H2020**
- [5] **PEGASUS, Public Ecosystem Goods And Services from land management: Unlocking the Synergies, 21-11-2014, 31-12-2020, Comissão Europeia, H2020**
- [6] **SUFISA, Sustainable finance for sustainable agriculture and fisheries, 21-11-2014, 31-12-2020, Comissão Europeia, H2020**
- [7] **TREASURE, Diversity of local European pig breeds and production systems for high quality traditional products and sustainable pork chains, 21-11-2014, 31-12-2020, Comissão Europeia, H2020**
- [8] **IF/01778/2013/CP1168/CT0002, Salivary proteomics and salivary gland regulation for understanding ingestive behaviour, 27-10-2014, 31-12-2015, FCT, Projeto Inv Expl_ Investigador FCT**
- [9] **New Deal for Youth Employment, A New Deal for Youth Employment, 05-10-2014, 31-03-2016, EEA GRANTS**
- [10] **ERAFRICA-INCAA, INCAA - INovative Conservation Agriculture approaches: Food Security and Climate Action Through soil and Water Conservation, Abordagens Inovadoras na Agricultura de Conservação: Segurança Alimentar e Ação contra as Alterações Climáticas através da Conservação do Solo e da Água, 01-09-2014, 31-08-2017, Comissão Europeia, ERAfrica**
- [11] **COST TD 1404, Network for Evaluation of One Health (NEOH), 31-07-2014, 31-07-2018, Comissão Europeia, Ações COST**
- [12] **LIFE13/NAT/PT/786, LIFE Saramugo - Conservação do Saramugo (*Anaeypris hispanica*) na Bacia do Guadiana (Portugal) , 01-07-2014, 31-01-2018, Comissão Europeia, LIFE**
- [13] **QARSC - PRODER 50370, Water quality at the Roxo's reservoir and the dynamics of the soils and crops, Qualidade da água da albufeira do Roxo na dinâmica dos solos e das culturas agrícolas, 01-07-2014, 31-12-2015, QREN, Proder**
- [14] **EXPL/AGR-FOR/1324/2013, Calorespirometry as an innovative tool to test arbuscular mycorrhizal fungal functionality under temperature stress, Calorespirometria - uma ferramenta inovadora para testar a funcionalidade de micorrizas arbusculares sob stress térmico, 01-04-2014, 31-03-2015, FCT, Projetos Exploratórios**

Knowledge connecting land, food and people

- [15] **EXPL/MAR-EST/0553/2013, Development of a novel molecular approach for the rapid assessment of the biodiversity changes of benthic nematodes assemblages during habitat recovery of *Zostera noltii* seagrass beds, Nova abordagem para a rápida avaliação da alteração de biodiversidade das comunidades de nematodes bentónicos durante o processo de recuperação natural de um pradaria de *Zostera noltii*, 31-03-2014, 30-03-2015, FCT, Projetos Exploratórios**
- [16] **RegaSuber - Proder 34043, Sobreiros (*Quercus suber* L.) em modo de produção intensiva e fertirrega, 05-03-2014, 21-05-2017, QREN, Proder**
- [17] **COST FA 1308, Dairy Care - Biomarker-based Welfare Technologies Working Group, 01-03-2014, 28-02-2018, Comissão Europeia, Ações COST**
- [18] **Treemover, Treemover - Construção de Protótipo e Estudo de Metodologia Certificada Associada à Transplantação de Árvores Adultas, 01-01-2014, 30-06-2015, QREN, I&DT Empresas/Projectos em Co-promoção**
- [19] MITTIC, Technological Modernisation and Innovation based on ICT in strategic and traditional sectors. Modernização e Inovação tecnológica com base TIC em setores estratégicos e tradicionais, 01-11-2013, 30-06-2015, QREN, Cooperação Territorial Europeia - Cooperação Transfronteiriça Portugal-Espanha 2007-2013
- [20] Cooperação FCT Índia, Study of DcAOX genes functionality associated with cell reprogramming under abiotic stresses, 25-10-2013, 31-12-2015, FCT, Cooperação Transnacional
- [21] LIFE Charcos, Conservation and management of Mediterranean Temporary Ponds in Southwest Portugal, Conservação de Charcos Temporários na Costa Sudoeste de Portugal, 01-07-2013, 31-12-2017, Comissão Europeia, LIFE
- [22] ESR-321725 (call FP7-PEOPLE-2012-CIG_06/03/2012), Understanding Symbiotic Diversity: A Candidate Gene Approach SYM'S GENE, 01-06-2013, 01-06-2017, Comissão Europeia, FP7
- [23] EXCL/AGR-TEC/0336/2012, HoliWine: Holistic approaches to oenology, HoliWine: Uma abordagem holística para a enologia, 01-06-2013, 30-12-2015, FCT, EXCL
- [24] COST Action 1302, European Network on Taeniosis/Cysticercosis, 23-05-2013, 31-12-2015, Comissão Europeia, Ações COST
- [25] RTDT, Rede de tratamento e difusão de tecnologia com vista à competitividade internacional do tecido empresarial nacional, 23-05-2013, 31-03-2015, QREN, Proder
- [26] Rega Deficitária na oliveira (*Olea europaea* L.), na região da Terra Quente Transmontana, com vista à otimização dos recursos hídricos, produtividade e qualidade do azeite, 22-05-2013, 31-12-2014, QREN, Proder
- [27] PTDC/BIA-MIC/3768/2012, Spatial and temporal analysis of microbial community in Pine Wilt Disease, Análise espacial e temporal das comunidades microbianas na doença do pinheiro, 02-05-2013, 01-05-2015, FCT, PTDC
- [28] Osteoartrite, Osteoartrite do Membro Distal do Cavalo Lusitano, 01-04-2013, 31-03-2015, CRUP, CRUP
- [29] PTDC/EMS-CRO/2042/2012, Distributed Optimization and Control of Large Scale Water Delivery Systems, Otimização Distribuída e Controlo de Sistemas de Distribuição de Água de Larga Escala, 01-04-2013, 01-04-2015, FCT, PTDC
- [30] TESLA - IEE-12-324758, TESLA - Transferring Energy Save Laid on Agroindustry, TESLA - Transferência de poupança energética para a agroindústria, 16-03-2013, 16-03-2016, Comissão Europeia, FP7 IEE

Knowledge connecting land, food and people

- [31] PRODER 46134_Tuberas , Produção de Túberas (Terfezia spp.), Produção de Túberas (Terfezia spp.), 01-03-2013, 31-12-2014, QREN, Proder
- [32] Vinhos que Pensam - Proder 43106, Vinhos que pensam - Melhoramento do processo produtivo da vinha por incorporação de técnicas de viticultura de precisão, com o objetivo de otimizar a produção e a qualidade da uva., 01-03-2013, 31-12-2014, QREN,
- [33] EXCL/AGR-PRO/0038/2012, Tracing natural DcAOX1a gene polymorphism for efficient functional marker identification, Identificação de polimorfismo no gene DCAOX1a para desenvolvimento de um marcador funcional eficiente, 03-01-2013, 03-12-2015, FCT, EXCL
- [34] MORECRIMSON, Técnicas de produção e conservação de uvas sem grainha da variedade Crimson, 01-01-2013, 31-12-2014, QREN, Proder
- [35] PTDC/BIA-EVF/4158/2012, Evolution of symbiosis genes in rhizobia: chickpea mesorhizobia as case study, Evolução de genes simbióticos em rizóbios: mesorizóbios de grão-de-bico como caso de estudo, 18-12-2012, 31-12-2014, FCT, PTDC
- [36] ALENT-07-0224-FEDER-001742, Novas tecnologias de monitorização do solo e da cultura da vinha para a melhoria da competitividade agrícola do Alentejo, 12-11-2012, 31-12-2014, QREN, Inalentejo
- [37] ALENT-07-0224-FEDER-001744, A Gestão da Intensidade de Pastoreio face à valorização do Montado como Sistema de Elevado Valor Natural, 12-11-2012, 30-04-2015, QREN, Inalentejo
- [38] ALENT-07-0324-FEDER-001747, Gestão Integrada da Protecção do Olival Alentejano. Contributos para o seu desenvolvimento e implementação , 12-11-2012, 31-12-2014, QREN, Inalentejo
- [39] Atlas da Vegetação Ripícola de Portugal Continental, 01-06-2012, 31-05-2014, Fundação EDP, Fundo EDP Biodiversidade
- [40] PTDC/AGR-ALI/117544/2010, Molecularly imprinted Polymers solid-phase extraction: A new highly selective and promising approach for trace analysis of pesticide residues in olive oil, Extração em fase sólida com polímeros molecularmente impressos: Uma aproximação altamente selectiva e promissora para análise vestigial de pesticidas em azeite, 01-05-2012, 01-05-2015, FCT, PTDC
- [41] COST Action FA1104, Sustainable production of high-quality cherries for the European market, 16-04-2012, 15-04-2016, Comissão Europeia, Ações COST
- [42] PTDC/AAC-CLI/119078/2010, Reconstruction and model simulations of past climate in Portugal using documentary and early instrumental sources (17th-19h century) (Klimhist), Reconstrução e simulação do clima de Portugal a partir de fontes documentais e instrumentais do sec. XVII ao sec XIX (Klimhist), 01-03-2012, 02-02-2015, FCT, PTDC
- [43] PTDC/AGR-ALI/119075/2010, Portuguese Traditional meat products: strategies to improve safety and quality , Salsicharia tradicional portuguesa:estratégias para a melhoria da segurança e qualidade, 01-02-2012, 01-02-2015, FCT, PTDC
- [44] PTDC/AGR-CFL/117026/2010, PlantBioNem - Plant biotechnology in phytonematicids screening , PlantBioNem - A biotecnologia vegetal na avaliação de fitonematicidas, 02-01-2012, 02-01-2015, FCT, PTDC
- [45] PTDC/AGR-CFL/120184/2010, SysPiNema - Characterization of the pinewood nematode / Pinus system: a phytochemical and histopathological approach, SysPiNema - Caracterização do sistema nemátode da madeira do pinheiro/ Pinus: abordagem fitoquímica e histopatológica, 01-01-2012, 31-12-2015, FCT, PTDC

Knowledge connecting land, food and people

- [46] PRODER/Medida 4.1 - 13021, Improving quality in Portuguese traditional sausages using low salt content, low smoked time period and starters., Melhoria da qualidade de enchidos tradicionais alentejanos pelo recurso a baixos teores de sal, monitorização do tempo de fumagem e utilização de culturas de arranque., 01-12-2011, 31-12-2014, QREN, Proder
- [47] PRODER/Medida 4.1 - Refª 12400, Micropropagation of new walnut cultivars, Micropropagação de Novas Cultivares de Nogueira., 01-12-2011, 31-12-2014, QREN, Proder
- [48] MARIE, MARIE - Mediterranean Building Rethinking for Energy Efficiency Improvement, 01-04-2011, 31-03-2014, QREN, Cooperação Territorial Europeia - Cooperação Transfronteiriça Portugal-Espanha 2007-2013
- [49] PTDC/AAC-AMB/115587/2009, Development of Methodology to Integrate CC effects in water resources management on a Portuguese river basin., Desenvolvimento de uma Metodologia para a Integração do Efeito das alterações Climáticas na Gestão de Recursos Hídricos para uma bacia Hidrográfica Portuguesa., 01-04-2011, 30-03-2014, FCT, PTDC
- [50] PTDC/AGR-GPL/111196/2009, Screening AOX polymorphic carrot, genotypes from primary cultures for differential growth potentials - a model application for calorimetry., 01-04-2011, 01-04-2014, FCT, PTDC
- [51] PTDC/CS-GEO/110944/2009, ATILA - Transition pathways: Assessing innovation in farm management strategies., ATILA - Processos de transição: inovação e estratégias de gestão na exploração agrícola., 01-04-2011, 31-07-2014, FCT, PTDC
- [52] PERGAMON - ESSEM COST Action ES0902, PERGAMON - permafrost and gas hydrate related methane release in the arctic and impact on climate change., 21-03-2011, 01-01-2014, Comissão Europeia, Ações COST
- [53] BIOAGENT, Biocontrol and Bioremediation agents and their role in Agriculture and forest, 01-03-2011, 01-03-2014, Comissão Europeia, FP7
- [54] FP7-KBBE-2010.1.4-09, rePHRAME - Development of improved methods for detection, control and eradication of pine wood nematode in support of EU Plant Health policy, 01-03-2011, 30-11-2014, Comissão Europeia, FP7
- [55] GESROCHA, Sistemas de apoio à decisão para a gestão optimizada da cultura da pedra rocha, 01-03-2011, 31-12-2014, QREN, Proder
- [56] PTDC/EME-PME/112910/2009, Silicon nitride ceramic components coated with nanocrystalline CVD diamond CVD diamond for total hip replacement - HIPCerDiam, Componentes cerâmicos de nitreto de silício revestidos por diamante CVD nanocristalino para prótese total da anca - HIPCerDiam, 01-03-2011, 01-03-2014, FCT, PTDC
- [57] PTDC/MAR/109954/2009, Effects of ocean climate on the macroecology and resilience to disturbances of kelp beds - OCEANKELP, Efeitos do clima oceânico na macroecologia e resiliência a perturbações dos povoamentos de kelps - OCEANKELP, 01-03-2011, 01-03-2014, FCT, PTDC
- [58] PTDC/AAC-AMB/113639/2009, Evaluation of climate changes impacts on irrigated systems and definition of adaptation measures., Estudo de impacto das alterações climáticas nos sistemas de regadio e definição de medidas de adaptação, 01-02-2011, 31-01-2014, FCT, PTDC
- [59] PTDC/AGR-PRO/111896/2009, The role of weeds mycorrhiza on the growth of winter crops and interactions with native rhizobia under Mediterranean conditions, O papel da micorrização de infestantes no crescimento de culturas de Outono-Inverno e Interações com rizóbio nativo em condições mediterrânicas., 01-02-2011, 01-02-2014, FCT, PTDC
- [60] FP7-KBBE-2010-4/nº265394 - FarmPath, Farming Transitions: Pathways Towards Regional Sustainability of Agriculture in Europe, 03-01-2011, 30-05-2014, Comissão Europeia, FP7

Knowledge connecting land, food and people

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- [18] **Rei F, Costa L.** 2014. *A resistência da mosca-da-azeitona ao dimetoato e a sua expansão em Portugal*. Vida Rural Dossier técnico.
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- [21] **Varanda C.** 2014. *Pragas e Doenças em Hidroponia, Prevenção e Controlo*. Revista Voz do Campo.

ADVANCED TRAINING - THESES

PHD THESES (BY ICAAM MEMBERS OR WITH SUPERVISION OF ICAAM MEMBERS)

- [1] Cati Oliveira Dinis, 2014-11-19, "Cork Oak (*Quercus suber* L.): A structural-functional 3D Approach". Doutoramento em Gestão Interdisciplinar da Paisagem. Universidade de Évora. Supervisor: Maria do Rosário Gamito Oliveira. Co-Supervisors: Nuno Manuel Cabral de Almeida Ribeiro, Peter Surovy

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- [2] Cátia Sofia Clemente Salvador, 2014-12-10, "Caracterização de cogumelos silvestres da espécie *Amanita ponderosa*: produção de metabolitos com actividade biológica". Doutoramento em Bioquímica. Universidade de Évora. Supervisor: Ana Teresa Caldeira. Co-Supervisor: Maria do Rosário Caeiro Martins.
- [3] Constança de Sampaio e Paiva de Camilo Alves, 2014-03-26, "Studies on cork oak decline: an interated approach". Doutoramento em Ciências Agrárias. Universidade de Évora. Supervisors: Nuno Manuel Cabral de Almeida Ribeiro; Maria Ivone Esteves da Clara
- [4] Délia Canha Gouveia Reis. "Statistical modelling of extreme rainfall in Madeira Island". Doutoramento em Matemática (Especialidade: Probabilidades e Estatística). 2014-12-12. Universidade da Madeira. Supervisor: Luiz Carlos Guerreiro Lopes
- [5] Elisete Santos Macedo, 2014-05-30, "Studies on the potential of alternative oxidase (AOX) as a functional marker candidate for efficient adventitious rooting in olive (*Olea europaea* L.)". Doutoramento em Ciências Agrárias. Universidade de Évora.
- [6] João Rui Dias Pinto Ribeiro, 2014-06-05, "Modelação do crescimento do Pinheiro-manso e sua aplicabilidade a nível da paisagem : aplicação na região da margem esquerda da Bacia do Guadiana". Doutoramento em Gestão Interdisciplinar da Paisagem. Universidade de Évora. Supervisor: Nuno Manuel Cabral de Almeida Ribeiro
- [7] Liliana Machado Ribeiro da Silva, 2014-11-17, "Caracterização da infecção por *Eimeria* spp. em caprinos no Alentejo". Doutoramento em Ciências Veterinárias. Universidade de Évora. Supervisor: Helder Carola Espiguinha Cortes
- [8] Luiz Tadeu da Silva. "Vulnerabilidade ao escorregamento de terras - Estudo de caso: Bacia do Rio Bengalas, 2011". 2014-01-29. Doutoramento em Ciências do Ambiente. Universidade de Évora. Supervisors: Elsa Paula Figueira Ferreira Morgado de Sampaio, João Alexandre Medina Côrte-Real
- [9] Maria Gertrudes Azinheira Branco. "Avaliação de Impacte Ambiental: o Património Arqueológico no Alentejo Central". 2014-02-07. Doutoramento em Arqueologia. Universidade de Évora. Osupervisors: Leonor Pereira Rocha e Isabel Alexandra Joaquina Ramos.
- [10] Maria Teresa Folgôa Batista, 2014-07-18, "Modelação geográfica em processos de caracterização e avaliação da paisagem numa perspectiva transfronteiriça". Doutoramento em Ciências do Ambiente. Universidade de Évora.
- [11] Natacha Alexandra Korní da Fonseca Milhano, 2014-12-19, "Insight into the underlying immune interactions of *Rickettsia* infection in the vector-pathogen-host interface". Doutoramento em Ciências Veterinárias. Universidade de Évora. Orientadores da Tese de DoutoramentoSupervisors: Rita de Sousa, David H. Walker. Co-supervisor Maria Manuela Clemente Vilhena
- [12] Nuno Joaquim Costa Cara de Anjo Lecoq, 2014-05-20, "A Herdade da Contenda. Uma paisagem única como paisagem de referência". Doutoramento em Gestão Interdisciplinar da Paisagem. Universidade de Évora. Supervisor: Maria Teresa Amado Pinto Correia
- [13] Nuno Miguel Lourenço Alexandre, 2014-07-08, "Aplicação de enxertos vasculares artificiais de polímeros biodegradáveis num modelo animal". Doutoramento em Ciências Veterinárias. Universidade de Évora.
- [14] Rosana da Silva Peixoto, 2014-11-17, "Biologia populacional de um repovoamento de veado (*Cervus elaphus* L.) em ambiente mediterrânico: padrões de uso do espaço, expansão geográfica e dinâmica de uma população fundadora". Doutoramento em Biologia. Universidade de Évora. Supervisor: António Paulo Pereira Mira
- [15] Ruth Andreia Henriques Sardinha, 2014-06-17, "Molecular Study of Therapeutic Targets of Tyrosine Kinase Inhibitors in Endometrial Stromal Tumors - Molecular and Protein Expression of Kit, PDGFRA and EGFR". Doutoramento em Biologia. Universidade de Évora. Supervisor: Doutor Enrique de Alava Casado, Professor del Hospital Universitario Virgen del Rodo de Sevilla (Espanha). Co-Supervisor: Fernando Manuel Salvado Capela e Silva

MASTER THESES (BY ICAAM MEMBERS OR WITH SUPERVISION OF ICAAM MEMBERS)

- [1] Ana Cláudia Pereira da Silva. "Identification of novel effectors from the pinewood nematode, *Bursaphelenchus xylophilus*". European Master of Science in Nematology (Erasmus Mundus-EUMAINE). Universidade de Ghent e Universidade de Évora. Supervisors: Maria Margarida Saial Santos Guiomar Espada, Manuel Galvão de Melo e Mota
- [2] Ana Isabel Espadinha Albardeiro. "Clínica de Animais de Companhia - Síndrome de Fanconi no cão". Mestrado Integrado em Medicina Veterinária. Universidade de Évora. Supervisor: Luís Miguel Lourenço Martins. Co-supervisor: Leonor de Almeida Pinho

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- [3] André Filipe Barreto Albuquerque. "Isolation and molecular characterization of the fatty acid synthase gene from an obese pig breed". Mestrado em Bioquímica. Universidade de Évora. Supervisor: José Manuel Mota Ruivo Martins. Co-supervisor: Marta Sofia Serrano Valente Casimiro Ferreira Laranjo
- [4] Calisto Varela. "Análise do Custo de Abate e Comercialização da Carne de Vaca no Distrito de Díli, Timor Leste". Mestrado em Economia e Gestão Aplicadas. Universidade Nacional de Timor Lorosa'e. Co-Supervisor: Vasco Manuel Fitas da Cruz
- [5] Carla Sofia da Silva Simões. "Avaliação de alterações na composição e função proteica da saliva induzidas por perda de peso". Mestrado em Bioquímica. Universidade de Évora. Supervisor: Elsa Cristina Carona de Sousa Lamy. Co-supervisor: Ana Cristina Bugalho Oliveira Rodrigues Costa
- [6] Catarina Vieira Pires. Suplementação Proteica na Recria de Ovinos - A utilização de folha de Amoreira". Mestrado em Engenharia Zootécnica. Universidade de Évora. Supervisor: Alfredo Manuel Franco Pereira
- [7] Cátia Patrícia Arcado Roque. "Estudo de alterações na atividade enzimática e/ou expressão da Na, K-ATPase na Diabetes tipo 2: resultados obtidos num modelo animal da doença" Mestrado em Bioquímica. Universidade de Évora. Tese de Mestrado. Supervisor Ana Cristina Bugalho Oliveira Rodrigues Costa. Co-supervisor: Célia Maria Miguel Antunes
- [8] Célia Sofia Rita Fernandes. "Efeito do estado vegetativo e do tempo de fermentação da silagem de grão húmido de milho na digestibilidade do amido". Mestrado em Zootecnia. Universidade de Évora. Supervisor: Amadeu António Gomes Borges de Freitas
- [9] Cláudia Emanuel da Graça Lopes. "A macrooxigenação controlada em mostos brancos: um caso prático". Mestrado em Viticultura e Enologia. Universidade de Évora. Supervisor: Maria João Pires de Bastos Cabrita. Co-supervisor: Raquel Marta Neves dos Santos Garcia
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