



**icaam**

Instituto de Ciências Agrárias e Ambientais Mediterrânicas

*Knowledge connecting land, food and people*

# ACTIVITY REPORT

2012

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

# ICAAM Activity Report 2012

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## INTRODUCTION

ICAAM (standing for *Institute of Mediterranean Agricultural and Environmental Sciences*) is a Research and Development (R&D) Unit of the University of Évora, created in 1991 under the framework of the National Science Program (“Program Ciência”).

ICAAM is located on “Campus da Mitra”, an experimental farm covering more than 285ha in Alentejo (southern Portugal), 12 km from the city of Évora.

ICAAM’s main goal is to promote excellent research on Mediterranean agro-ecosystems, thus contributing to the knowledge, innovation, development, sustainability and competitiveness of agro-silvo-pastoral Mediterranean systems.

To achieve these objectives, ICAAM puts a strong focus in interdisciplinarity, integrating researchers from several 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).

ICAAM favors a close cooperation with other national and international R&D units, as well as local producers, professional associations and other relevant stakeholders, with the final goal of answering, in an integrated manner, to the technical, social and economical needs of Mediterranean agriculture while preserving the natural resources and the quality of the environment.

## 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.

The **Scientific Council Standing Committee**, formed by the Board of Directors and the Coordinators of the four 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.

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** team supports the Board of Directors and the Scientific Council in day-to-day activity.

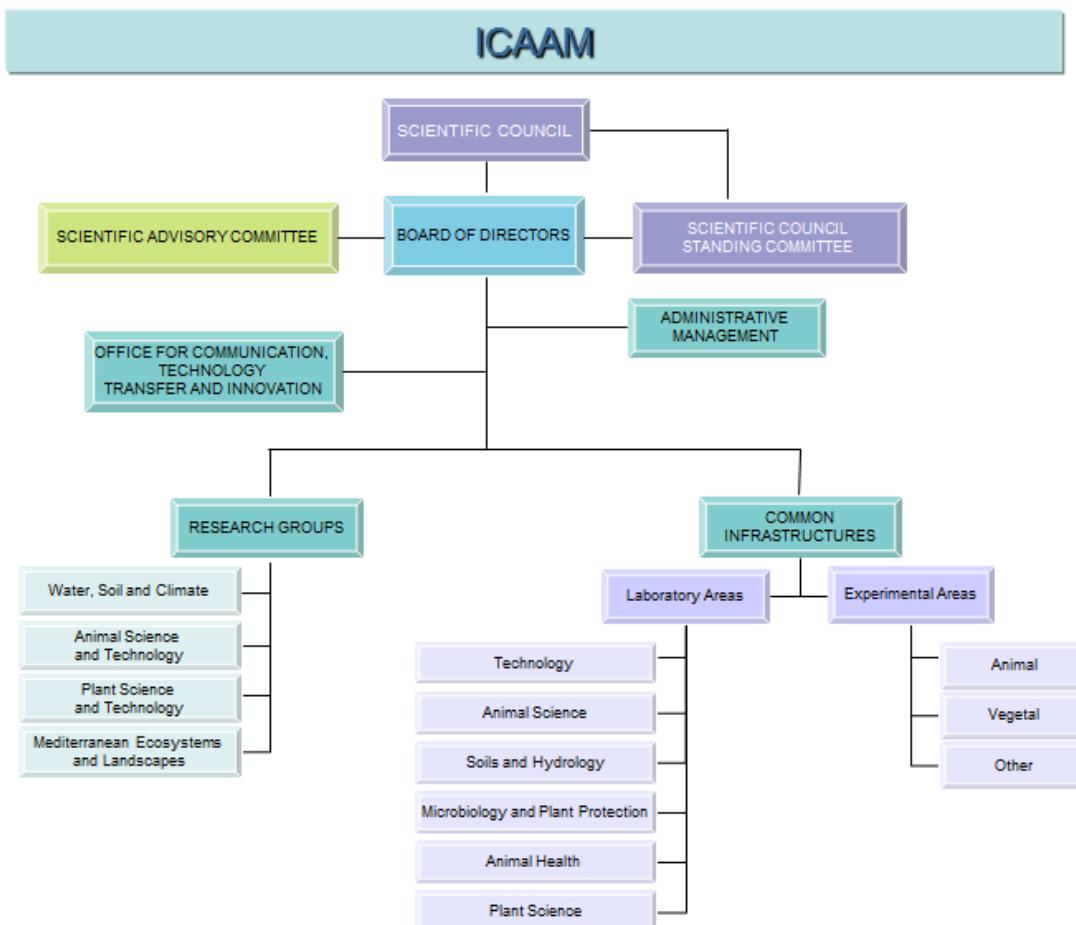
The **Office for Communication, Technology Transfer and Innovation** is dedicated to the dissemination of Research & Development results and to the promotion and transfer of technologic innovation, thus contributing to science outreach and regional development.

ICAAM's scientific activity is structured in **4 Research Groups**:

- Animal Science and Technology
- Mediterranean Ecosystems and Landscapes
- Plant Science and Technology
- Water, Soil and Climate

ICAAM's facilities include several **laboratories** and other **infrastructures** (experimental units and greenhouses) that are available for use by ICAAM members and authorized visitors.

#### Organization chart:



#### Updating and redefinition of ICAAM's strategy and objectives

In 2012 ICAAM initiated an overall discussion of its strategy for the future six years: 2014-2020. This discussion was needed in order to better target the activity of ICAAM in face of Horizon 2020 and the challenges ahead. The aim was to involve all senior researchers (eligible PhDs), in order to achieve a strategy which could be both well-grounded in the research capital of ICAAM, competitive and differentiating, but also acknowledged by all these researchers.

In the first place, a smaller advisory board has been nominated and chaired by the Director, composed by the former directors of ICAAM as well as some of the most experienced researchers. This group has worked between May and November 2012, in order to identify the main strategic objectives of ICAAM, to clearly define the type of research to be developed as well as the structural domains of application of this research.

The objectives identified are:

- 1) Efficiency of production factors;
- 2) The valorization of the resulting products and materials;

3) The territorial integration and the balance between economic, social and environmental values.

The characteristics and domain of application are:

- Systemic approach
- Integration of disciplines and scales
- Conceptual and methodological innovation
- Experimental research and relation with practice
- The Mediterranean region as application context

These strategic objectives, the type of research and the domains of application have been presented by the Director to all researchers of ICAAM, in smaller meetings by Research Group, followed each time by an open discussion. The discussions contributed to the sharpening and clarification of the above mentioned items, but in general terms all the proposals were accepted and agreed upon.

Following, the Director has designated three working groups, each one relating to one of the strategic goals:

- 1) Efficiency in the use of production factors
- 2) Products, quality and consumption
- 3) Management and conservation of ecosystems and landscapes

Each of these groups is composed by three researchers from different areas of work, but within the main subject. The working groups should gather and discuss with all ICAAM researchers that work within areas relevant for these goals, in order to identify specific objectives and guidelines, as well as the main research lines. This work started in January 2013 and is supposed to be finished in spring, to be then discussed broadly in the Scientific Council of ICAAM. The final strategy and organization of the ICAAM is to be finished before the summer 2013.

## 2012 Highlights

### Scientific publications

In 2012 ICAAM reached its highest level of scientific publications ever, with 176 papers published in international journals (of which 141 indexed in ISI/Scopus) and 27 scientific books/book chapters. The number of publications per eligible doctorate ratio (1.21) was also the highest since the creation of ICAAM, in 1991.

### Research Projects approved

In 2012 two projects were approved under the typology “*Projects in research lines of excellence*” of the FCT call. The project *Tracing natural DcAOX1a gene polymorphism for efficient functional marker identification* (FCT EXCL/BEX-GMG/0038/2012) aims to find and characterize molecular markers that can be used for plant breeding, with the final goal of obtaining plants with improved stress tolerance and stable production characteristics.

The *HoliWine: Holistic approaches to oenology* project (FCT EXCL/AGR-TEC/0336/2012) will focus in understanding the genetic and metabolic diversity of indigenous wine microflora in order to identify its oenological potential. This will be achieved by studying such microbial communities using holistic approaches (in the vine and in the wine), from the individual to the community, and from the genome to the metabolome. The project is a partnership between BIOCANT; ICAAM; Unidade de Química Orgânica, Produtos Naturais e Agroalimentares da Universidade de Aveiro and Fundação Eugénio de Almeida

Also in 2012 one FP7 (FP7-SME-2012-1) project was approved that integrates ICAAM’s researchers. This project, entitled *FEED-CODE - Animal feed certification instrument and procedure to guarantee the quality of meat and dairy products through automatic, simple and rapid DNA barcode method based on tubulin-based polymorphism*, will develop a reliable, simple and cheap methodology and technology for the fingerprinting of each individual plant species used for the common feed production. This project involves 7 European SMEs and 4 RTD institutions from 6 countries.

Three national projects funded by the INALENTEJO Program were approved and initiated in 2012, in strategic areas for the Alentejo economy: vine and wine; olive production and olive oil and *Montado*.

The approval of an application to the “Sistema Regional de Transferência de Tecnologia (SRTT) (Concurso Nº 1/SAPCT/SAICT, ALENTE-15-2011-01)”, in the total amount of 1.480.682,40€, will enable the improvement, renewal and strengthening of ICAAM infrastructures for the next years, greatly enhancing ICAAM’s technical capacity, scientific and technological production and competitiveness.

### Technology Transfer and Patents

“MCCA” and “Ecorega” are two innovative technologies developed by our researchers that, in 2012, were among the 20 best new technologies presented at SIAG2012, the International Fair in Agro-Business. MCCA was also one of the three final nominees in the “Concurso Nacional de Inovação BES”.

MCCA is a new solution for the mechanization of olive harvesting, developed as a partnership between ICAAM and a manufacturer of agricultural machinery, designed to mechanically harvest olives in modern intensive olive orchards in an economically efficient way. Ecorega is an intelligent irrigation controller that maximizes water saving in lawns, orchards and vegetable gardens.

In 2012, ICAAM’s researchers were involved in the submission of three new patents and three new patents were approved.

## Organization of International Congresses and Courses and participation in Scientific Committees of International Congresses

“TEMPRIV2012 - International Conference on Temporary Rivers” was one of the major events organized by ICAAM in 2012. This conference took place in Portugal for the first time and brought to Évora 50 of the best researchers in the area of temporary rivers, from across Europe, the United States and Australia.

The international GISday event was celebrated by ICAAM with the organization of an Open Day dedicated to GIS technologies' applications in several areas: ecosystems, landscape, agriculture, forestry, spatial data infrastructures, business applications, transports. The event was a joint organization of ICAAM, CIMAC (Intermunicipality Community of Central Alentejo) and the Department of Landscape and Regional Planning of University of Évora. GISday gathered more than 80 participants including researchers, professors, students, local authorities and business representatives.

Together with IALE-Europe (European Association for Landscape Ecology), and APEP (Associação Portuguesa de Ecologia da Paisagem), ICAAM has organized an intensive PhD course under the theme “Agricultural landscapes responding to multiple drivers: challenges for Landscape Ecology in Europe”. The course took place in the campus of Mitra, from the 24<sup>th</sup> to the 30<sup>th</sup> June, and included a field trip in the Montado landscape around Évora. Ten European senior researchers/professors participated as lecturers and mentors, and 18 students from different nationalities.

## Science and Society

In 2012, several activities took place with the aim of bringing ICAAM's closer to schools and the general public.

The “Conhecer a Mitra” guided-tours initiative (“Knowing Mitra”) included 3 guided walks in Herdade da Mitra. The tours had the main objective of raising public awareness on the natural, historical and cultural richness of Herdade da Mitra and were accompanied by researchers in the respective areas (archeology, history, landscape architecture and environment/biodiversity). “Conhecer a Mitra” tours counted with near 100 participants.

ICAAM received several visits from high-school students that visited some of the laboratories and performed some hands-on activities adequately integrated in the school programmes.

ICAAM organized diverse activities for the general public, integrated in the “Fascination of Plants Day”, and in collaboration with INIA-Elvas and Évora Municipality.

The participation in the Ciência Viva “Ocupação Científica de Jovens nas Férias” programme (traineeships for high school students in science institutions) brought to ICAAM 35 students, that spent one week in 9 of our laboratories working in close contact with our researchers. The “Ciência Viva no Verão” involved more than one hundred participants in 6 outdoor activities that included: a walk in Mitra to know more about mushrooms; a bird-ringing session; a bird watching boat-tour and a night walk to learn more about Barn Owls.

## Research

### Animal Science and Technology Research Group

#### *Major interests / Objectives*

The Animal Science and Technology Research Group (CTA) develop fundamental and applied research in veterinary and animal science. The main objective of CTA is to generate new knowledge in animal production, animal health and safety, quality and control of products of animal origin with particular interest to Portugal and the Mediterranean region. The inter-relationship between animal-environment-man and the optimisation of animal production and welfare are the basis of CTA research activities.

The CTA research activities are, according to the expertise of its members (27 PhD), based on a fundamental concept of research efficiency - multidisciplinary teams, from ICAAM and other national and international research institutions, working in close cooperation with official services, private enterprises, professional associations, veterinary clinicians, and other national and international institutions.

CTA research is organized in 3 main scientific areas: Animal Physiology and Production Systems; Animal Health and Prevention; Valorisation of Genetic Resources and Traditional Products – with special emphasis on Mediterranean ecosystems, considering the location of ICAAM in the region of Alentejo, Southern Portugal.

A major source of income in these ecosystems is the production of native livestock populations (ruminants and pigs) and their products of recognized quality. The Mediterranean ecosystems are characterized by seasonal, irregular and scant rainfall, resulting in low forage potential. Animals reared under free range systems generally face nutritional deficiencies during pasture shortages, which affects their health and results in poor reproductive performance. Additionally, the native pastures are often degraded due to overgrazing, high stocking rates and inadequate management. Thus, in addition to the use of new strategies to enhance sustainability of animal production Mediterranean systems, a deeper knowledge of native livestock populations' physiology and diseases is needed. In the future, CTA aims at becoming a reference research group in Portugal on Mediterranean veterinary and animal science, producing scientific knowledge which can be generalized for other parts of Mediterranean regions. For this, the main strategic objectives of CTA are to develop its performance in the following research domains:

1. Grazing Ecology - Behaviors and Adaptations.  
Assessment of feeding behavior and food preferences and evaluation of the adaptation of domestic animals to environmental conditions.
2. Preservation and Enhancement of Alentejano Swine Breed.  
Study of: maternal ability of sows, behavior and post-natal physiology of piglets, pre-weaning mortality of piglets; cryopreservation of embryos produced in vivo and in vitro; the effects of feeding management on carcass and meat characteristics and technological aptitudes of adipose and muscle tissues including fatty acids profile, and dietary and organoleptic evaluation of the final product; swine diseases associated with Alentejano pigs.
3. Mediterranean Food: Food of Animal Origin, Consumption and Human Health.  
Study of the effects of production systems and new technologies in product quality; authentication, sensory and dietetic evaluation of food, differentiation and innovation in products; and microbiological study of food of animal origin.
4. Animal Health and Public Health.  
Study of transmissible diseases through biological, serological, molecular and epidemiological analyses and their economic impact in animal production.

Furthermore CTA puts a strong effort in:

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- (i) improving scientific productivity;
- (ii) promoting academic education (BSc, MSc; PhD and Post docs) in veterinary and animal science [CTA researchers perform their teaching mainly at the University of Évora but also in other national and international Universities];
- (iii) developing knowledge and technology transfer; and
- (iv) improving internationalization, through the cooperation and integration into national and international research programs and initiatives.

### *Head of Group*

Fernando Capela e Silva ([fcs@uevora.pt](mailto:fcs@uevora.pt))

Associate Professor, PhD in Biology, Universidade de Évora

### *Major Scientific Achievements / Publications*

1. Grazing Ecology - Behaviors and Adaptations.  
Key publications: [12-Books], [14-Books], [36], [47], [105]
2. Preservation and Enhancement of Alentejano Swine Breed.  
Key publications: [3-Other National Publications], [24], [31-Conference Proceedings], [77], [79]
3. Mediterranean Food: Food of Animal Origin, Consumption and Human Health.  
Key publications: [49], [53]
4. Animal Health and Public Health.  
Key publications: [27], [28], [32], [90], [115]

### *ISI / Scopus Publications*

(Numbers referring to the complete list in the Annex)

[3]; [16]; [24]; [27]; [28]; [32]; [36]; [37]; [39]; [46]; [47]; [49]; [53]; [69]; [70]; [77]; [79]; [82]; [83]; [88]; [90]; [91]; [92]; [93]; [105]; [107]; [115]; [116]; [119]; [121]; [128]; [134]; [136]; [143]

### *Research Projects*

(Numbers referring to the complete list in the Annex)

*Running in 2012 (projects started in 2012 are indicated in bold)*

[7]; [17]; [19]; [21]; [38]; [60]; [67]; [70]; [71]; **[75]**

## Mediterranean Ecosystems and Landscapes Research Group

### *Major interests / Objectives*

The Research Group on Mediterranean Ecosystems and Landscapes (EPM) develops applied research within a trans disciplinary scope, but complementary to those of the other groups of ICAAM. EPM addresses the territorial, ecological and social dimensions of the interaction human-agriculture-nature.

The EPM's research activity is structured around three main research lines, where strategic domains can be identified:

1. Biodiversity and Conservation of Fauna and Mediterranean Vegetation.
2. Functioning, Modelling and Tree Physiology of Agroforestry Systems
3. Landscape Analysis, Management and Rural Policies

### *Head of Group*

**Paulo Alexandre da Cunha e Sá de Sousa (psasousa@uevora.pt)**

Associate Professor, PhD in Biology (Ecology and Systematics), Universidade de Lisboa

### *Major Scientific Achievements / Publications*

1. Biodiversity and Conservation of Fauna and Mediterranean Vegetation.  
Key publications: [34], [129], [130], [141]
2. Functioning, Modelling and Tree Physiology of Agroforestry Systems.  
Key publications: [65], [66], [108]
3. Landscape Analysis, Management and Rural Policies.  
Key publications: [8], [74]

The common strength and main achievements of this group focus on the evergreen agroforestry systems. Following the 2011 Special Issue on "The Montado system: assessing and modelling the functioning of the cork oak woodland" published in the *Agroforestry Systems* journal (including 10 papers based on the research developed by EPM), a second Special Issue on these agro-forestry systems has been prepared during 2012. This will be published by *Annals of Forest Science* in early 2013.

EPM is also coordinating or collaborating in many different research projects, funded by Fundação para a Ciência e Tecnologia and other sources, including European Union's funding programmes. EPM members are actively involved in Advanced Education programmes such as the Masters on Conservation Biology and on Landscape Sciences and the PhD programme on Interdisciplinary Landscape Management (a collaboration of Universities of Évora, Açores and the Technic University of Lisboa).

### *ISI Scopus Publications*

(Numbers referring to the complete list in the Annex)

[8]; [9]; [10]; [11]; [18]; [19]; [20]; [26]; [33]; [34]; [42]; [51]; [58]; [64]; [68]; [74]; [75]; [76]; [78]; [80]; [100]; [101]; [108]; [113]; [114]; [122]; [123]; [129]; [130]; [132]; [135]; [141]

### *Research Projects*

(Numbers referring to the complete list in the Annex)

***Running in 2012 (projects started in 2012 are indicated in bold)***

[3]; [9]; [10]; [11]; [13]; [14]; [15]; [20]; [23]; [25]; [29]; [35]; [49]; [57]; [61]; [62]

## Plant Science and Technology Research Group

### Major interests / Objectives

The Plant Science and Technology Research Group focus its research interests in two main domains:

1. Sustainability in Mediterranean farming systems: Efficient use of resources and environmental impact;
2. Processing technologies and enhancement of regional agricultural products.

Regarding domain 1, work has been carried out in several lines that share the final goal of using less nutrients and energy, under climate change scenarios in the Mediterranean region, thus allowing the production of more and healthier food in a sustainable manner. Research lines in this domain include: the adoption of techniques to conserve the soil and water; the effect of tillage systems on soil carbon; the effects of salinity on plant growth; the application of agricultural precision techniques and of new machinery; the selection and use of microorganisms that protect plants, facilitate nitrogen fixation, promote the plant growth, function as bio control agents, or are useful in degrading pesticides; the finding of new methods to eliminate pathogens; the development of new uses for plant residues; the improvement of sensitive techniques to select virus free plants and help avoiding the vectors; the development of methods to understand, detect and control severe diseases (pine wilt nematode) and pests; the exploitation of functional markers to assist in plant breeding; the minimization of abiotic stresses. We focused on Mediterranean crops, like olive, grape, citrus, cereals, legumes or horticultural.

Concerning domain 2, the research lines followed aimed at the improvement and development of new technologies applied to regional products, either to obtain new ones or to find new uses. Main regional products studied include wine (characterization of most important compounds, testing the effect of exotic wood in its differentiation) and olive oil (characterization of volatile compounds and optimization of conservation methods). Work has also been done in post harvest technologies with relation to pathogen control and harvest timing.

### Head of Group

**Maria Ivone Esteves da Clara (iclar@uevora.pt)**

Full Professor, PhD in Plant Pathology, University of California, Berkeley, USA

### Major Scientific Achievements / Publications

The Plant Science and Technology Research Group (CTV) integrate near ninety members, forty of which are 'Integrated' PhD members.

The scientific productivity of the CTV increased greatly when compared with last year. In 2012 close to ninety papers were published in international peer review journals, revealing an increase of almost 100% when comparing to 2011. The number of full articles appearing in proceedings of international conferences reached near 70, around five times higher than the number in the previous year.

Two PhD and 12 MSc theses supervised by CTV group members were successfully concluded. A senior member of CTV was Guest editor of the Special Issue (vol 133, 1; 2012) of the European Journal of Plant Pathology (Springer).

A special reference goes to the 5 patent filled, and the development of 3 prototypes of specific equipment for harvest, prune and shelling, respectively, which have been initiated long before. Although this number is low it may set an example to encourage younger scientists in conception and design of new methods, new applications for plant residues and for microorganisms, and machines, establishing ties with the industry at several levels.

A group working in virology has been providing antigens to the Loewe Biochemicha (Germany) for the production and commercialization of specific antisera to use in specific virus diagnosis.

**Key Publications (selection):** [2-Other International Publications], [30], [35], [40], [72], [124], [142]

## *ISI Scopus Publications*

(Numbers referring to the complete list in the Annex)

[1]; [2]; [7]; [12]; [13]; [14]; [15]; [17]; [21]; [22]; [23]; [25]; [29]; [30]; [31]; [35]; [38]; [40]; [41]; [44]; [45]; [48]; [54]; [55]; [59]; [60]; [61]; [62]; [63]; [65]; [66]; [67]; [71]; [72]; [73]; [81]; [84]; [85]; [87]; [89]; [94]; [95]; [96]; [97]; [98]; [99]; [102]; [103]; [104]; [106]; [109]; [110]; [111]; [112]; [117]; [118]; [120]; [124]; [125]; [127]; [131]; [133]; [138]; [139]; [140]; [142]; [144]

## *Research Projects*

(Numbers referring to the complete list in the Annex)

*Running in 2012 (projects started in 2012 are indicated in bold)*

[1]; [4]; [5]; [8]; [12]; [16]; [26]; [27]; [28]; [30]; [32]; [34]; [36]; [39]; [40]; [41]; [51]; [52]; [53]; [54]; [55]; [56]; [58]; [63]; [64]; [65]; [68]; [72]; [73]; [74]

## Water, Soil and Climate Research Group

### *Major interests / Objectives*

The overall master objective of the Group is the investigation of the relations between Water, Soil properties, Agricultural practices, Aquatic Ecosystems structure and functioning, Climate and Bioenergy, with the support of Numerical Modelling, Remote Sensing and GIS techniques.

The Group has devoted major efforts of its initiatives to applied science and post-graduate education with central focus on the sustainability of natural resources. The approached followed centred in improving the efficiency of primary production systems (e.g. capacity building and equipment installation) while preserving natural ecosystems, as well as finding ways to cope with expected changes under global change pressures. The cooperation with national and international teams, both in Europe and in developing countries, is also one of the main goals of the Group.

More specifically, the activities of the Group are centred on conservation of soil, water and energy in irrigated agriculture; agro meteorology; monitoring water quality and ecological quality in rivers and reservoirs; watershed management, modelling of atmospheric and hydrological processes, including the influence and impacts of climate change; bioenergy.

### *Head of Group*

**Maria Antónia Pacheco Ilhéu (milheu@uevora.pt)**

*Associate Professor, PhD in Aquatic Ecology, Universidade de Évora*

### *Major Scientific Achievements / Publications*

The research Group Water, Soil and Climate of ICAAM integrates near forty members, twenty of which are 'Integrated' members and five PhD students.

In 2012 close to twenty papers were published in international peer review journals (ISI and Scopus), plus twenty five other international publications, including book chapters and proceeding of international conferences. Several national books were published, with special reference to Ecosystems Management and Agriculture Hydrology. One PhD and fourteen MSc theses supervised by ASC group members were successfully concluded. The group has organized two International Conferences and a patent was filled on irrigation technology equipment.

#### **Key Publications (selection):**

1. Climate and Modelling [52], [86], [140]
2. Aquatic Conservation [56], [57]
3. Efficient use of resources on Agro systems [6], [139]

### *ISI Scopus Publications*

(Numbers referring to the complete list in the Annex)

[8] ;[18] ;[19] ;[20] ;[26] ;[33] ;[34] ;[42] ;[51] ;[58] ;[64] ;[68] ;[74] ;[75] ;[76] ;[78] ;[80] ;[100] ;[101] ;[108] ;[113] ;[114] ;[122] ;[123] ;[129] ;[130] ;[132] ;[135] ;[141]

### *Research Projects*

(Numbers referring to the complete list in the Annex)

#### *Running in 2012 (projects started in 2012 are indicated in bold)*

[2]; **[6]**; [18]; [22]; [24]; [31]; [33]; [37]; [42]; [43]; [44]; [45]; [46]; **[47]**; [48]; [50]; [59]; [66]; [69]

## Education

### ***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 2012, the number of registered students for each PhD Programme is the following:

<b>PhD Programme</b>	<b>PhD students in 2012</b>
PhD Programme in Agrarian Sciences	21
PhD Programme in Biology	42
PhD Programme in Environmental and Territory Engineering Sciences	13
PhD Programme in Environmental Sciences	14
PhD Programme in Interdisciplinary Landscape Management	26
PhD Programme in Veterinarian Sciences	11

## 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"*) started its activity in October 2011, and is fully dedicated to the dissemination of Research & Development results and to the promotion and transfer of technologic innovation.

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 and Facebook page or the release of dedicated information to the media and specific publics.

UDIT is also involved in the promotion of outreach activities with schools and society: several schools visited ICAAM laboratories, summer science labs for secondary students were organised (in collaboration with Ciência Viva) and public science activities were promoted in thematic fairs (FICOR 2012) and events (Fascination of Plants Day).

Regarding knowledge and technology transfer, directed at more specific audiences, UDIT acts as a point of contact with farmers, cooperatives and SME's, with the main goals of facilitating the interaction and cooperation with the public and private sector locally and internationally and thus contributing to regional development.

## Support Services – Infrastructures

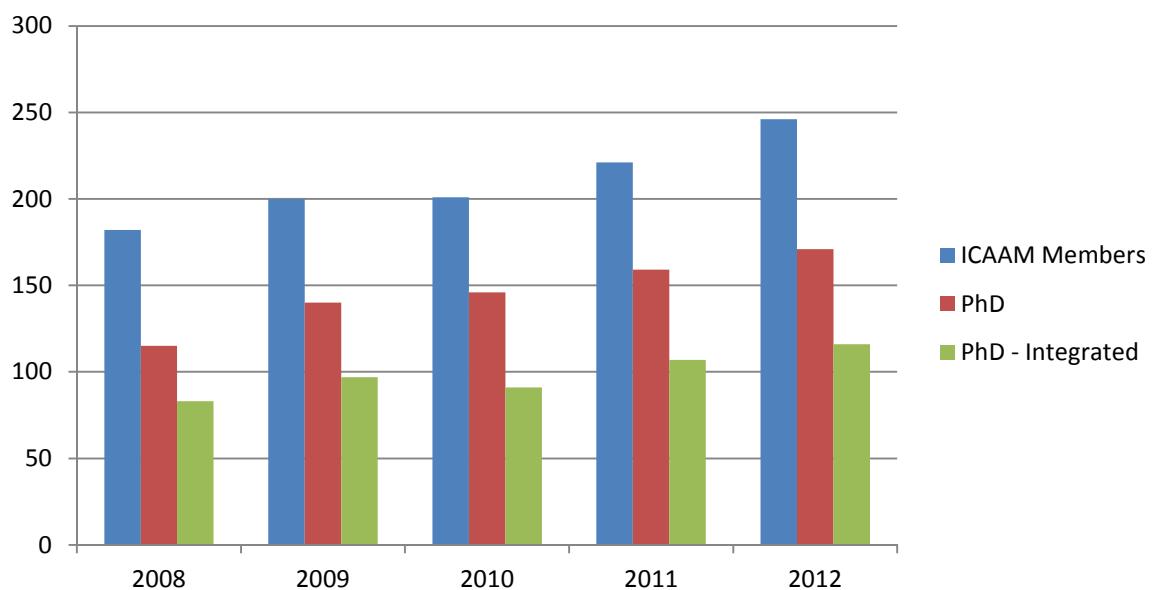
### Full List and Heads of Infrastructures

1. **Laboratory Area: Technology** - *Ana Maria Costa Freitas, Associate Professor with Aggregation*
  - 1.1. **Oenology Laboratory** - *Maria João Cabrita, Associate Professor*
  - 1.2. **Chemistry and Biochemistry Laboratory** - *Ana Maria Costa Freitas, Associate Professor with Aggregation*
  - 1.3. **Quality and Technology of Regional Products Laboratory** - *Cristina Maria Pinheiro, Associate Professor*
  - 1.4. **Post-Harvest Technology Laboratory** - *Ana Cristina Santos, Assistant Professor*
2. **Laboratory Area: Animal Science** - *Manuel Cancela d'Abreu, Associate Professor with Aggregation*
  - 2.1. **Metabolism and Nutrition Laboratory** - *Maria Isabel Mendonça Rato, Assistant Researcher*
  - 2.2. **Pastures and Forages Technology Laboratory** - *José Godinho Calado, Assistant Professor*
  - 2.3. **Animal Reproduction Laboratory** - *Maria José Vila Viçosa, Assistant Professor*
  - 2.4. **Biometeorology and Animal Welfare Laboratory** - *Fátima Baptista, Assistant Professor*
3. **Laboratory Area: Soils and Hydrology** - *José Rafael Silva, Assistant Professor with Aggregation*
  - 3.1. **Physics of Soils Laboratory** - *Rui Machado, Assistant Professor*
  - 3.2. **Hydrology and Hydraulics Laboratory** - *José Rafael Silva, Assistant Professor with Aggregation*
  - 3.3. **Experimental Channel** - *Manuel Rijo, Associate Professor with Aggregation*
4. **Laboratory Area: Microbiology and Plant Protection** - *Manuel Mota, Invited Assistant Professor*
  - 4.1. **Plant Virology Laboratory** - *Maria Ivone Clara, Full Professor*
  - 4.2. **Nematology Laboratory** - *Manuel Mota, Invited Assistant Professor*
  - 4.3. **Micology Laboratory** - *Maria do Rosário Félix, Assistant Professor*
  - 4.4. **Entomology Laboratory** - *Fernando Rei, Assistant Professor*
  - 4.5. **Soil Microbiology Laboratory** - *Solange Oliveira, Assistant Professor*
5. **Laboratory Area: Animal Health** - *Artur Marinho, Associate Professor*
  - 5.1. **Animal Health Laboratory** - *Artur Marinho, Associate Professor*
  - 5.2. **Diagnosis and Research in Leishmaniosis Laboratory** - *Saúl Semião-Santos, Assistant Researcher*
  - 5.3. **Parasitology Laboratory Victor Caeiro** - *Helder Cortes, Assistant Professor*
6. **Laboratory Area: Plant Science** - *Renato Coelho, Assistant Professor*
  - 6.1. **Botany Laboratory** - *Maria Paula Simões, Assistant Professor*
  - 6.2. **Plant Breeding and Biotechnology Laboratory** - *Augusto Peixe, Assistant Professor*
  - 6.3. **Plant Physiology Laboratory** - *Renato Coelho, Assistant Professor*
  - 6.4. **Molecular Biology Laboratory** - *Birgit Arnholdt-Schmitt, Coordinating Researcher*
  - 6.5. **Palinology Laboratory** - *Rui Brandão, Assistant Professor*
7. **Experimental Area: Animal** - *Carlos Roquete, Associate Professor*
  - 7.1. **Cattle Complex** - *Carlos Roquete, Associate Professor*
  - 7.2. **Small Ruminants Complex** - *José Lopes de Castro, Assistant Professor*
  - 7.3. **Swine Complex** - *José Tirapicos Nunes, Associate Professor with Aggregation*
8. **Experimental Area: Plant** - *Augusto Peixe, Assistant Professor*
  - 8.1. **Plant Growing Chambers** - *Augusto Peixe, Assistant Professor*
  - 8.2. **Greenhouse Complex** - *Rui Machado, Assistant Professor*
9. **Other Infrastructures**
  - 9.1. **Agriculture Machinery** - *Gottlieb Basch, Associate Professor*
  - 9.2. **Ultra-low Freezers** - *José Manuel Martins, Assistant Professor*

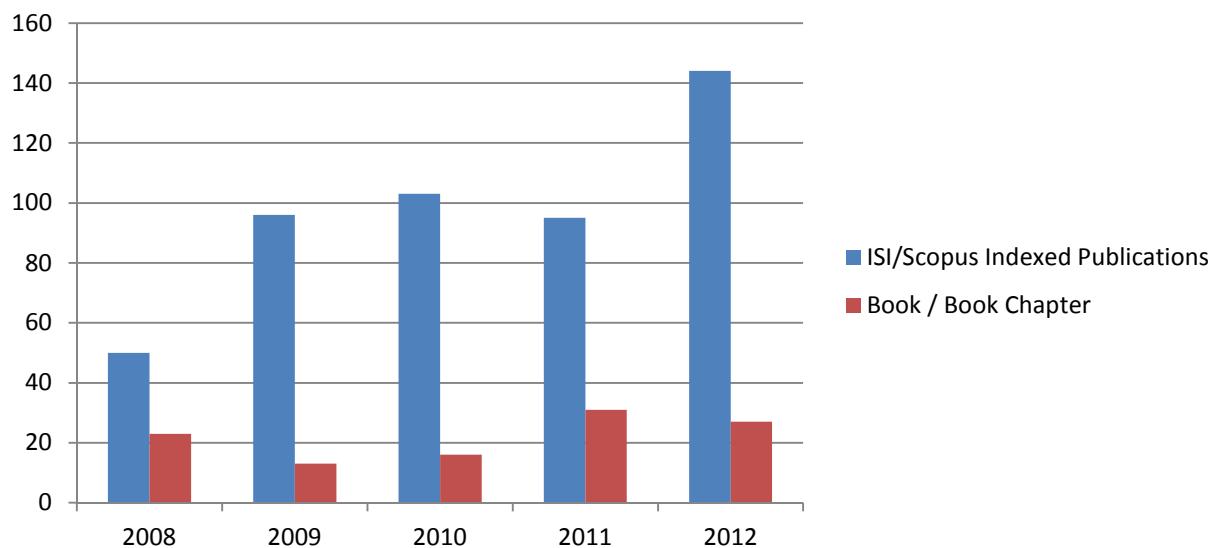
## Statistics

### Progress in the last 5 years

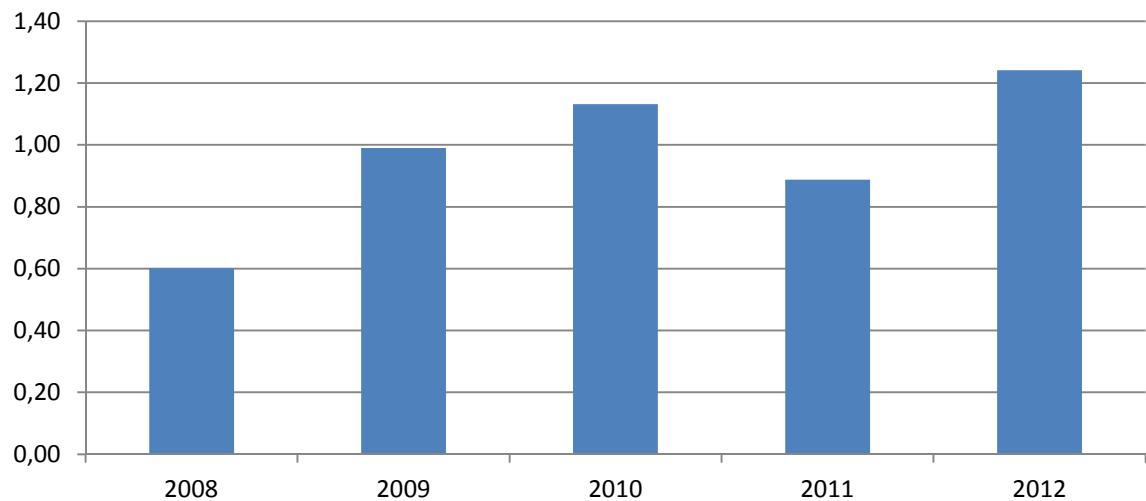
#### Researchers



#### Publications



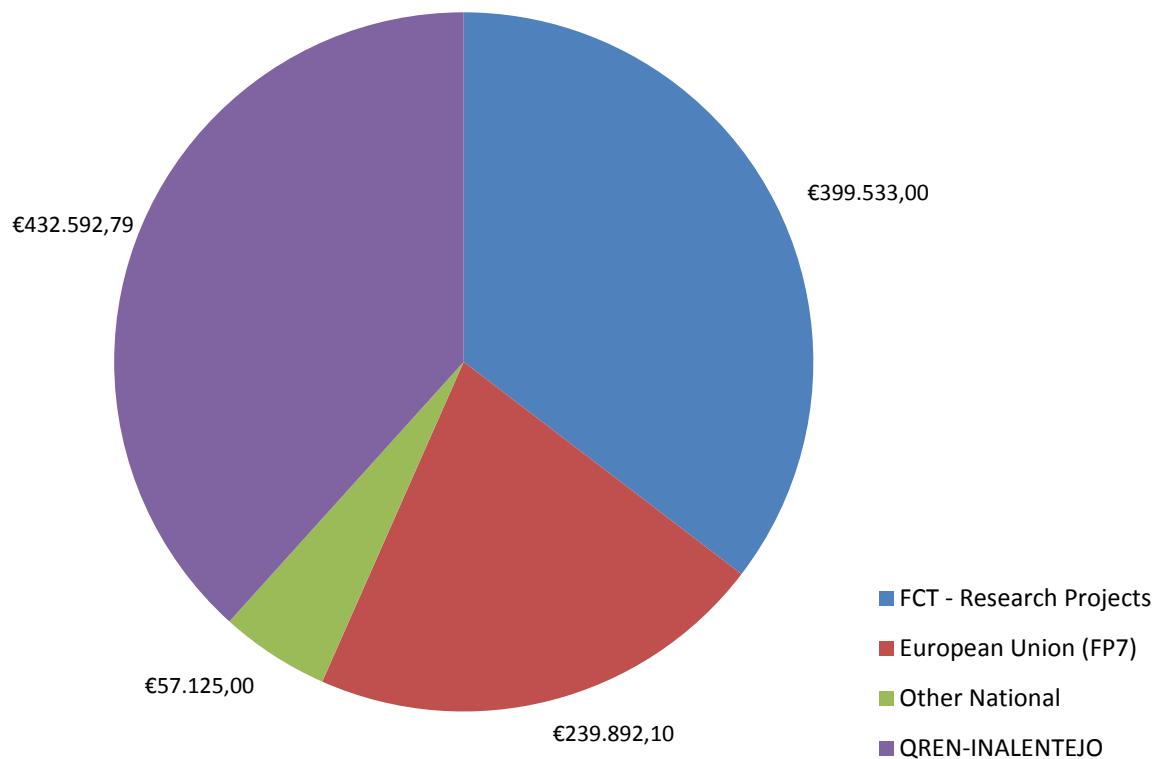
### ISI / Scopus Indexed Publications per Eligible Doctorate



## Research funding

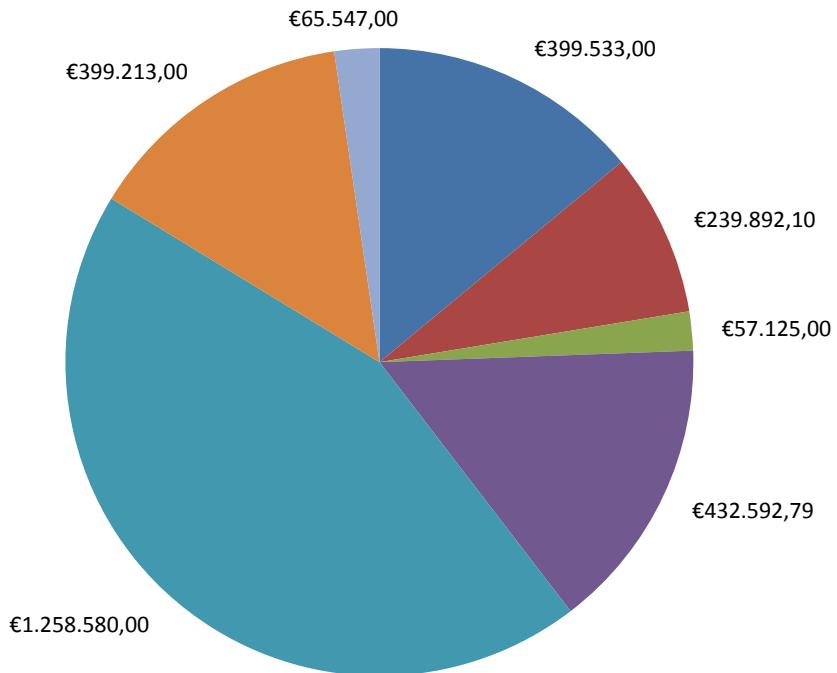
(Projects started in 2012, by funding source)

FCT - Research Projects	399.533,00 €
European Union (FP7)	239.892,10 €
Other National	57.125,00 €
QREN-InALENTEJO	432.592,79 €
<b>TOTAL</b>	<b>1.129.142,89 €</b>



## Total budget

FCT - Research Projects	399.533,00 €
European Union (FP7)	239.892,10 €
Other National	57.125,00 €
QREN-INALENTEJO	432.592,79 €
QREN-INALENTEJO-"Sistema de Apoio a Infraestruturas Científicas e Tecnológicas"	1.258.580,00 €
FCT "Projeto Estratégico" - PEst-C/AGR/UI0115/2011	399.213,00 €
Contract Services	65.547,00 €
<b>TOTAL</b>	<b>2.852.482,89 €</b>



- FCT - Research Projects
- European Union (FP7)
- Other National
- QREN-INALENTEJO
- QREN-INALENTEJO-"Sistema de Apoio a Infra-estruturas Científicas e Tecnológicas"
- FCT "Projeto Estratégico" - PEst-C/AGR/UI0115/2011
- Contract Services



Instituto de Ciências Agrárias e Ambientais Mediterrânicas

*Knowledge connecting land, food and people*

## Evaluation

FCT 2007 evaluation: INSTITUTO DE CIÊNCIAS AGRÁRIAS MEDITERRÂNICAS - ICAM [AGR-ALENTEJO-EVORA-115]

Classification: **Very Good**

## Annexes

### Full List of ICAAM Members

(31<sup>st</sup> December 2012)

### Direction

#### Director

Maria Teresa Pinto Correia

#### Vice-Directors

Augusto António Vieira Peixe

Elvira Sales Baptista

Gottlieb Basch

### Research

#### Animal Science and Technology Research Group

**Fernando Manuel Salvado Capela e Silva,**  
Professor Auxiliar

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

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

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

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

**Ofélia Pereira Bento**, Professor Associado c/  
agregação

**Artur Armando de Moura Marinho**, Professor  
Associado

**Carlos José dos Reis Roquete**, Professor Associado

**Rui Manuel Alves Ferreira**, Professor Associado

**Vasco Manuel Fitas da Cruz**, Professor Associado

**Alfredo Manuel Franco Pereira**, Professor Auxiliar

**Amadeu António Gomes Borges de Freitas**,  
Professor Auxiliar

**Ana Cristina Rodrigues Costa**, Professor Auxiliar

**António Manuel Neto Vaz**, Professor Auxiliar

**António Manuel Oliveira Coelho Murilhas**, Professor  
Auxiliar

**Catarina Falcão Trigoso Vieira Branco Lavrador**,  
Professor Auxiliar

**Célia Maria Miguel Antunes**, Professor Auxiliar

**Cristina Maria dos Santos Conceição Pinheiro**,  
Professor Auxiliar

**Elisa Maria Varela Bettencourt**, Professor Auxiliar

**Elsa Maria Leclerc Duarte**, Professor Auxiliar

**Fernando Paulo de Sousa e Sá Correia Marques**,  
Professor Auxiliar

**Helder Carola Espiguinha Cortes**, Professor Auxiliar

**Isabel Maria Simão Alves Pereira Ferreira**, Professor  
Auxiliar

### Management Support

#### Administrative Management

Manuel Luís Brandão

Luís Cláudio Arraiano

#### Office for Communication, Technology Transfer and Innovation

Joana Perdigão

**José Alberto Feijão Macedo Neves, Professor**

*Auxiliar*

**José António Lopes de Castro, Professor Auxiliar**

**José Manuel Mota Ruivo Martins, Professor Auxiliar**  
**Ludovina Neto Padre, Professor Auxiliar**

**Luís Miguel Lourenço Martins, Professor Auxiliar**

**Maria Cristina Calhau Queiroga, Professor Auxiliar**

**Maria do Rosário Caeiro Martins, Professor Auxiliar**

**Maria Eduarda Marques Madeira da Silva Potes, Professor Auxiliar**

**Maria Elvira Lourido de Sales Baptista, Professor Auxiliar**

**Maria João Marinho Lança Silva de Almeida, Professor Auxiliar**

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**Maria Manuela Clemente Vilhena, Professor Auxiliar**

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**Miguel Nuno Geraldo Viegas dos Santos Elias, Professor Auxiliar**

**Orlando da Silva Lopes, Professor Auxiliar**

**Rui Manuel de Almeida Brandão, Professor Auxiliar**

**Rui Miguel Carracha Charneca, Professor Auxiliar**

**Sandra Maria da Silva Branco, Professor Auxiliar**

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

**Maria Manuela Mendes Guerra, Professor Coordenador**

**Paulo Alexandre Cortes Salgado, Investigador Auxiliar, CIRAD, France**

**Nuno Miguel Lourenço Alexandre, Assistente**

**Ricardo Jorge da Costa Trindade Palmeiro Romão, Assistente**

**Susana Oliveira Serrano Monteiro, Assistente Convidado**

**Luís Filipe Marques Ribeiro Teixeira da Costa, Researcher (FCT)**

**Maria Isabel S. de A. Ferraz de Oliveira Mendonça Rato, Researcher (FCT)**

**Saúl José Semião Santos, Researcher (FCT)**

**Ana Maria Monteiro Ferreira, Post-Doc**

**Elsa Cristina Carona de Sousa Lamy, Post-Doc**

**Antónia da Conceição dos Reis Pão Mole, PhD Student**

**Carina Luísa da Costa Carvalho, PhD Student**

**Elsa Cristina da Graça Prates, PhD Student**

**Elsa Rute Guerra Caeiro, PhD Student**

**Joana Manuela Capela Pires, PhD Student**

**Lénia Isabel Alfaiate Rodrigues, PhD Student**

**Liliana Machado Ribeiro da Silva, PhD Student**

**Luísa Maria Dotti Silva Pereira Raimundo, PhD Student**

**Marta Sofia Garcia Candeias, PhD Student**

**Sílvia Alexandra Macedo Arantes, PhD Student**

**Vanda Gonçalves dos Santos, PhD Student**

**Maria João Martins Vila-Viçosa, Technician / PhD Student**

**Maria da Graça Janeiro Machado, Technician**

**Maria Fátima Bastos Candeias, Technician**

*Mediterranean Ecosystems and Landscapes Research Group*

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

**Alexandre Roulin, Professor Associado, Geneve University**

**Luiz Carlos Gazarini, Professor Associado**

**Maria Manuela Antunes Marques David, Professor Associado**

**Alexandre D'Orey Cancela d'Abreu, Professor Associado (retired)**

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**Isabel Maria Henriques Pires Pereira, Professor Auxiliar**

**João Eduardo Morais Gomes Rabaça, Professor Auxiliar**

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

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**Maria Paula Duarte Simões, Professor Auxiliar**

**Maria Teresa Amado Pinto Correia, Professor Auxiliar**

**Marízia Clara de Menezes Dias Pereira, Professor Auxiliar**

**Nuno Manuel Cabral de Almeida Ribeiro, Professor Auxiliar**

**Jorge Manuel da Silva Delgado Nunes, Researcher**

**Carla Sofia Dávila Soares Gonzalez, Post-Doc**

**Diana Surová, Post-Doc**

**Peter Surovy, Post-Doc**

**Rui Nascimento Fazenda Lourenço, Post-Doc**

**Sónia Maria Carvalho Ribeiro, Post-Doc**

**Ana Cristina Pereira da Cruz Galantinho, PhD student**

**Ana Margarida Pinto da Fonseca**, *PhD student*  
**Carlos António Bastos de Moraes Guerra**, *PhD student*  
**Carlos António Marques Pereira Godinho**, *PhD student*  
**Cati Oliveira Dinis**, *PhD student*  
**Constança de Sampaio e Paiva Camilo-Alves**, *PhD student*  
**Filipe Granja de Carvalho**, *PhD student*  
**Inês Margarida Ferreira Roque**, *PhD student*  
**Luís Alexandre Piteira Gomes**, *PhD student*  
**Luís Filipe Lucas Barroso**, *PhD student*  
**Maria Helena Marques Enes Guimarães**, *PhD student*  
**Marisa Isabel da Silva Gomes**, *PhD student*  
**Pedro Miguel Filipe Pereira**, *PhD student*  
**Peter Stubkjaer Andersen**, *PhD student*  
**Rui Daniel Parreira Machado**, *PhD student*  
**Sérgio Rui Borreiro Coelho Godinho**, *PhD student*  
**Ana Margarida Casimiro Ferreira Marques**, *Research Fellowship*  
**Fernando Manuel Alfaiate Pereira Moital**, *Research Fellowship*  
**Helena Guilherme de Menezes**, *Research Fellowship*  
**Luís Carlos Cameirão Madeira**, *Research Fellowship*  
**Mara Elisabete da Silva Almeida**, *Research Fellowship*  
**Rogério Filipe Agostinho Louro**, *Research Fellowship*

#### *Plant Science and Technology Research Group*

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

**Gustavo Nuno Barbosa**, *Professor Catedrático*  
**Mário José Gouveia Pinto Rodrigues Carvalho**, *Professor Catedrático*  
**Maria Ermelinda Vaz Lourenço**, *Professor Catedrático (retired)*  
**Ana Maria F. da S. da Costa Freitas Drumond Ludovice**, *Professor Associado c/ agregação*  
**Joaquim Manuel Efe Serrano**, *Professor associado c/ agregação (retired)*  
**Anacleto Cipriano Pinheiro**, *Professor Associado*  
**Annemarie Carola Meierrose de Araújo**, *Professor Associado*  
**Gottlieb Basch**, *Professor Associado*  
**João Manuel Mota Barroso**, *Professor Associado*  
**José Manuel Nobre Oliveira Peça**, *Professor Associado*

**Maria Leonor Pimenta Marques Verdete da Silva Carvalho**, *Professor Associado*  
**Miguel Salazar**, *Professor Associado, Universidade do Algarve*  
**Pedro José Realinho Gonçalves Correia**, *Professor Associado, Universidade do Algarve*  
**Manuel Galvão de Melo e Mota**, *Professor Auxiliar c/ agregação*  
**Rui Manuel de Sousa Fragoso**, *Professor Auxiliar c/ agregação*  
**Alexandra Rosa da Costa**, *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 Paula Honrado Pinto**, *Professor Auxiliar*  
**António Fernando Bento Dias**, *Professor Auxiliar*  
**Augusto António Vieira Peixe**, *Professor Auxiliar*  
**Dora Maria Fonseca Martins Ginja Teixeira**, *Professor Auxiliar*  
**Fernando Manuel de Campos Trindade Rei**, *Professor Auxiliar*  
**Isabel Maria de Oliveira Brito**, *Professor Auxiliar*  
**Isabel Solange Martins de Oliveira**, *Professor Auxiliar*  
**João Manuel Pereira Ramalho Serrano**, *Professor Auxiliar*  
**José Francisco Calado Barros**, *Professor Auxiliar*  
**José Manuel Godinho Calado**, *Professor Auxiliar*  
**Lídia Adelina Pó Catalão Dionísio**, *Professor Auxiliar, Universidade do Algarve*  
**Luis António Domingues dos Santos Fernandes**, *Professor Auxiliar*  
**Luis Manuel Cardoso Vieira Alho**, *Professor Auxiliar*  
**Maria Amely Zavattieri**, *Professor Auxiliar*  
**Maria do Rosário Fernandes Félix**, *Professor Auxiliar*  
**Maria João Pires de Bastos Cabrita**, *Professor Auxiliar*  
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**Mário Manuel Ferreira dos Reis**, *Professor Auxiliar, Universidade do Algarve*  
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**Renato Ruas Pereira Coelho**, *Professor Auxiliar*  
**Ricardo Joaquim Murteira Carvalho Freixial**, *Professor Auxiliar*  
**Rui Manuel de Almeida Machado**, *Professor Auxiliar*  
**Pat J. Sandra**, *Professor Visitante, Research Institute for Chromatography*  
**Francisco Luís Mondragão Rodrigues**, *Professor Coordenador, Escola Superior Agrária de Elvas*

**Birgit Arnholdt-Schmitt**, *Investigador Coordenador*  
**Jan Tommy Svensson**, *Investigador Coordenador*  
*Convidado*  
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**Rajeev Kumar Sarma**, *Researcher*  
**Ana Rita Pereira da Costa**, *Researcher (FCT), INIA, Elvas*  
**Hélia Cristina Guerra Cardoso**, *Researcher (FCT)*  
**Margarida Maria Cabral Lages Azevedo Santana**, *Researcher (FCT)*  
**Raquel Marta Neves dos Santos Garcia**, *Researcher (FCT)*  
**Amaia Miren Nogales Garcia**, *Post-Doc*  
**Ana Isabel Pereira Alexandre**, *Post-Doc*  
**Carla Alexandra Alves Afonso Nunes**, *Post-Doc*  
**Carla Marisa Reis Varanda**, *Post-Doc*  
**Carlos Noceda Alonso**, *Post-Doc*  
**Clarisse Cordeiro Brígido**, *Post-Doc*  
**Cláudia Sofia Leite Vicente**, *Post-Doc*  
**Holger Wolfgang Hegewald**, *Post-Doc*  
**João Miguel Ferreira da Rocha**, *Post-Doc*  
**Marta Sofia Serrano Valente Casimiro Ferreira Laranjo**, *Post-Doc*  
**Paulo Cezanne Reis Vieira**, *Post-Doc*  
**Vera Mónica Piegas Valadas**, *Post-Doc*  
**Ana Margarida de Sousa Prado Fernandes da Graça**, *PhD student*  
**António Miguel da Costa Magriço Frederico**, *PhD student*  
**Bruno Miguel Oliveira Soares**, *PhD student*  
**Carla Aparecida Ragonezi Gomes Lopes**, *PhD student*  
**Elisete Santos Macedo**, *PhD student*  
**Florinda Maria Martins Gama**, *PhD student*  
**Maria Doroteia Murteira Rico da Costa Campos**, *PhD student*  
**Nádia Filipa Martins Silva**, *PhD student*  
**Nuno Miguel Costa Martins**, *PhD student*  
**Pedro Miguel de Sousa Barbosa**, *PhD student*  
**Rodrigo Jorge de Bessa Abreu**, *PhD student*  
**Sara Alexandra Pedras Porfírio**, *PhD student*  
**Alexandre de Oliveira Ferreira**, *Research Fellowship*  
**Bruno Emanuel Duarte Ribeiro**, *Research Fellowship*  
**Francisco Xavier Inês Nascimento**, *Research Fellowship*  
**Luísa Isabel Guerreiro David Coelho**, *Research Fellowship*  
**Luz Gabriela Muñoz Sanhueza**, *Research Fellowship*  
**Maria Margarida Saial Santos Guiomar Espada**, *Research Fellowship*  
**Teresa Marchão Manso**, *Research Fellowship*  
**Antónia Maria Soares Prates de Oliveira**, *Technician*  
**Maria Otília Ferreira Miraldo**, *Technician*

*Water, Soil and Climate Research Group*

**Maria Antónia Pacheco Ilhéu**, *Professor Auxiliar*  
  
**Artur António de Almeida Portela**, *Professor Catedrático*  
**João Alexandre Medina Côrte-Real**, *Professor Catedrático (retired)*  
**Maria do Rosário Gamito de Oliveira**, *Professor Catedrático (retired)*  
**Ricardo Paulo Serralheiro**, *Professor Catedrático (retired)*  
**Francisco Lúcio dos Reis Borges Brito dos Santos**, *Professor Associado*  
**João Paulo Tavares Almeida Fernandes**, *Professor Associado*  
**Manuel Rijo**, *Professor Associado*  
**Adélia Maria Oliveira de Sousa**, *Professor Auxiliar*  
**Carlos Alberto Correia Guerrero**, *Professor Auxiliar, Universidade do Algarve*  
**Carlos Alberto de Jesus Alexandre**, *Professor Auxiliar*  
**Carlos Manuel Miranda Rodrigues**, *Professor Auxiliar*  
**Elsa Paula Figueira Ferreira Morgado Sampaio**, *Professor Auxiliar*  
**Fátima de Jesus Folgôa Baptista**, *Professor Auxiliar*  
**José Alexandre Varanda Andrade**, *Professor Auxiliar*  
**José Júlio Braga Correia da Silva**, *Professor Auxiliar*  
**José Rafael Marques da Silva**, *Professor Auxiliar*  
**Luís Leopoldo de Sousa e Silva**, *Professor Auxiliar*  
**Luiz Carlos Guerreiro Lopes**, *Professor Auxiliar, Universidade da Madeira*  
**Maria Madalena Vítorio Moreira**, *Professor Auxiliar*  
**Rita Cabral Pereira de Castro Guimarães**, *Professor Auxiliar*  
**Shakib Shahidian**, *Professor Auxiliar*  
**Paulo Alexandre Justo Fernandez**, *Professor Adjunto, Instituto Politécnico de Castelo Branco*  
**Sandra de Jesus Martins Mourato**, *Professor Adjunto, Instituto Politécnico de Leiria*  
**Cristina Maria Mendes Andrade**, *Professor Adjunto, Instituto Politécnico de Tomar*  
**Deepti Rani**, *Researcher*  
**Célia Maria do Carmo Toureiro**, *Post-Doc*  
**Júlio César Lima**, *Post-Doc*  
**Paula Rute Pereira Matono Alves**, *Post-Doc*  
**Paulo Jorge Norte Castanheira**, *Post-Doc*  
**Anabela Cândida Ramalho Durão**, *Assistente com Regência, Escola Superior Agrária de Beja*  
**Maria Teresa Folgôa Baptista**, *Assistente Convidado*  
**Alice de Fátima Palma Fernandes Ramos**, *PhD student*  
**Carlos Otero Águas da Silva**, *PhD student*

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

**Nuno Ricardo Gracinas Nunes Guiomar, PhD**  
*student*

**Rong Zhang, PhD student**

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

**Regina Célia Santos Costa Corte Real, Technician**

## Research Production

### Research Projects

(running in 2012; started in 2012 indicated in bold)

- [1] Evaluation of mechanical pruning in Rocha pear orchards; Cooperfrutas, SRL; 02-Jan-10; 31-Dec-14; 40.036,00 €
- [2] 0317\_ALTERCEXA\_4\_E; Measures of adaptation and mitigation of climatic changes through the use of alternative energies in Central Portugal, Extremadura and Alentejo; Interreg; 01-Jan-09; 30-Set-12; 100.000,00 €
- [3] 0406\_ALTERCEXA\_II\_4\_E; Altercexa II - Mitigation and Adaptation Measures of climatic change through impulsion of alternative energy in Estremadura and Central Alentejo (Second Phase); QREN; 01-Jan-10; 31-Dec-13; 166.666,67 €
- [4] 112RT0460; CORNUCOPIA - Caracterización y evaluación funcional y de seguridad de compuestos bioactivos de frutas iberoamericanas como ingredientes alimentarios; CYTED; 01-Jan-12; 31-Dec-15; 0,00 €
- [5] AGRO-AMF-AOX; A functional marker of commercial AMF isolates for sustainable agriculture; FP7-PEOPLE-2009-IAPP; 01-Dec-10; 31-Dec-14; 278.297,00 €
- [6] ALENT-07-0224-FEDER-001742; Novas Tecnologias de Monitorização do Solo e da Cultura da Vinha para a Melhoria da Competitividade Agrícola do Alentejo; QREN/INALENTEJO; 12-Nov-12; 31-Dec-14; 157.660,55 €
- [7] ALENT-07-0224-FEDER-001744; Gestão da Intensidade de Pastoreio Face à Valorização do Montado como Sistema de Elevado Valor Natural; QREN/INALENTEJO; 12-Nov-12; 31-Dec-14; 168.629,80 €
- [8] ALENT-07-0324-FEDER-001747; Gestão Integrada da Protecção do Olival Alentejano. Contributos para o seu desenvolvimento e implementação; QREN/INALENTEJO; 12-Nov-12; 31-Dec-14; 106.302,44 €
- [9] Atlas da Vegetação Ripícola - EDP Biodiv; Atlas da Vegetação Ripícola de Portugal Continental.; Fundação EDP; 01-Jun-12; 31-Mai-14; 57.125,00 €
- [10] AtlasAvesInv; Portugal Bird Atlas of Wintering and Migratory birds; Fundo EDP-Biodiversidade; 01-Mai-11; 31-Out-13; 29.200,00 €
- [11] Bonelli; Medidas compensatórias e monitorização específica para a águia de Bonelli, decorrentes do processo de avaliação de impacte ambiental da linha Tunes-Estoia 150 kV; EGSP - Energia e Sistemas de Potência, Lda; 01-Set-12; 31-Ago-14; 0,00 €
- [12] CAPS/FCT. Nº263/2010; Use of water in shortage situations: implementation of simple techniques for sustainable development. Proj. cooperação bilateral Brasil/Portugal CAPS/FCT. Nº263/2010; FCT; 01-Out-11; ; 10.000,00 €
- [13] CL-BBD-Cavid; Impacts of forest and livestock management and the increase of nesting cavities on bird diversity: a potential for forest plagues control; Companhia das Lezírias S.A., Iniciativa Business & Biodiversity; 01-Jan-08; 31-Dec-12; 89.000,00 €
- [14] CL-BBD-ReabCursosAgua; Improvement and rehabilitation of temporary watercourses: enhancement of biodiversity in 'montados'; Companhia das Lezírias S.A., Iniciativa Business & Biodiversity; 01-Jan-08; 31-Dec-12; 53.500,00 €
- [15] CL-BBD-TYTOTAGUS; TYTOTAGUS: Barn Owl postnatal dispersal in the Tagus Valley; Companhia das Lezírias S.A., Iniciativa Business & Biodiversity; 01-Jan-08; 31-Dec-12; 107.020,00 €
- [16] COST Action FA1104; Sustainable production of high-quality cherries for the European market; COST Action; 16-Apr-12; 15-Apr-16

- [17] COST/FA0803; COLOSS - Prevention of Honeybee Colony Losses; COST; 01-Jan-08; 31-Dec-12; 12.000,00 €
- [18] Cyted - P709RT0317; REDIENE - Red Iberoamericana de Energía; CYTED; 01-Jan-10; 31-Dec-13; 15.000,00 €
- [19] DCI-ALA/08/19189/169-157/ ALFA III-75 S; SAPUVET III: Contributing to the Millennium Development Goals through the One Health Concept; União Europeia, Programa ALFA III; 01-Jan-09; 31-Dec-12; 810.623,00 €
- [20] Debate-PRRN; Debate on Development Strategies and Models of Governance in the Alentejo Region; Programa para a Rede Rural Nacional (PRRN) - Área de Intervenção 1 - Capitalização da Experiência e do Conhecimento; 21-Set-09; 31-Dec-12; 30.743,77 €
- [21] EAHC grant agreement 20081107 II.5.1; HIALINE - Health Impacts of Airborne ALergen Information Network; União Europeia (EAHC); 01-Jan-09; 31-Dec-12; 37.400,00 €
- [22] ENERGY.2009.5.2.2 - COMET; COMET - Integrated infrastructure for CO<sub>2</sub> transport and storage in the west MEditerranean; FP7 - ENERGY.2009.5.2.2; 01-Out-10; 31-Dec-12
- [23] EuroGIS-GPS; EuroGIS-GPS: Testing a competency framework for biodiversity data collection. Leonardo Da Vinci Transfer of Innovation; EU-Leonardo; 01-Out-11; 30-Set-13; 34.132,00 €
- [24] FCOMP-01-0124-FEDER-016103 PTDC/AAC-AMB/115587/2009; Development of a Methodology to Integrate Climatic Change effects in Water Resources Management on a Portuguese River Basin; COMPETE - FCT; 01-Abr-11; 31-Mar-13; 27.384,00 €
- [25] FCT 65-2010/16928/1361; FCT 65-2010/16928/1361; FCT-Progr Média Ciência; 01-Mar-11; 31-Mai-12; 30.082,51 €
- [26] FCT- PTDC/HIS-ARQ/120236/2010; HEROICA: Saúde e Alimentação na Ibéria Romana - um Case-study em Arqueometria; FCT; 01-Abr-12; 30-Apr-15
- [27] FEED CODE. FP7-SME-2012; FEED-CODE - Animal feed certification instrument and procedure to guarantee the quality of meat and dairy products through automatic, simple and rapid DNA barcode method based on tubulin-based polymorphism (TBP); EU - FP7; 01-Dec-12; 30-Nov-15; 239.892,10 €
- [28] 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; 7º Programa Quadro; 01-Mar-11; 31-Dec-14; 289.000,00 €
- [29] FP7-KBBE-2010-4/nº265394); FarmPath - Farming Transitions: Pathways Towards Regional Sustainability of Agriculture in Europe; 7º Programa Quadro; 01-Mar-11; 28-Feb-14; 149.287,00 €
- [30] Grant agreement n° 247669, FP 2007/2013 - Marie Curie Act.; BIOREGENT - Biocontrol and Bioremediation agents and their role in Agriculture and Forest health-People-MARIE CURIE ACTIONS-2009-IRSES; 7º PQ, MARIE CURIE ACTIONS-2009-IRSES; 01-Mar-11; ; 7.200,00 €
- [31] Grant Agreement No: 289139, FP7; AGREE - Agriculture and Energy Efficiency; 7º Programa Quadro; 01-Out-11; 30-Set-13; 42.819,00 €
- [32] MCCA; MCCA - Row Side Machine for Continuous Harvesting of olives; Máquina de Colheita em Contínuo de Azeitona. Projeto ADI/QREN nº 3457 (2009/2012) (Financiado pelo Sistema de Incentivos à I&DT, Projectos de Empresas em Co-promoção da ADI/QREN: Nº de candidatura 3457). Entidade coordenadora: Empresa Vicort.; ADI-QREN; 01-Jun-09; 30-Nov-12; 80.150,00 €
- [33] NANO/NMed-AT/0115/2007; Production of low arsenic content rice using precision agriculture techniques. Produção de arroz baixo teor de arsénio usando técnicas de agricultura de precisão; QREN/PRODER; 01-Jan-10; 31-Dec-13; 36.891,98 €
- [34] O432\_I2TEP\_E\_5; I2TEP – Research and Crossborder Transfer Spain-Portugal Network. Sub-project CITROLIVA; POCTEP -Programa Operacional Cooperação Transfronteiriça; 01-Jan-11; 31-Dec-12; 0,00 €
- [35] OTALEX C; OTALEX C - Territorial and Environmental Observatory of Alentejo-Extremadura - Centro; Programa Leader; 01-Jan-11; 31-Dec-12; 16.666,00 €
- [36] PDTC/AGR-ALI/119075/2010; Portuguese Traditional meat products: strategies to improve safety and quality; FCT; 01-Fev-12; 01-Fev-15; 21.300,00 €
- [37] POCTEP/RITECA II; Optimization of agricultural practices: Irrigation water use and precision agriculture; RITECA; 01-Jan-11; 31-Dec-13; 5.000,00 €

- [38] PRODER Acção 4.2.2/2009 nº 020285014298; *Nutrição de Bovinos de Carne*; QREN/PRODER; 01-Jun-10; 31-Mai-13; 61.684,75 €
- [39] PRODER/Medida 4.1 - Ref. Grupo 261F – Proj. 13.017 a 13.021; *Improving quality in Portuguese traditional sausages using low salt content, low smoked time period and starters.*; QREN/PRODER; 01-Set-10; 31-Ago-15; 223.176,58 €
- [40] PRODER/Medida 4.1 - Refº 12400; *Micropropagação de novas cultivares de nogueira*; QREN/PRODER; 01-Jan-10; 31-Dec-13; 73.086,00 €
- [41] PTDC/ AGR-PRO/111896/2009; *The role of weeds mycorrhiza on the growth of winter crops and interactions with native rhizobia under Mediterranean conditions*; FCT; 01-Out-10; 31-Out-13; 137.877,00 €
- [42] PTDC/AAC-AMB/098786/2008; *SMARTPARKS - Planning system for protected areas in small islands*; FCT; 01-Jan-10; 31-Dec-13; 9.060,00 €
- [43] PTDC/AAC-AMB/100520/2008; *ERLAND – Impacts of climate change on runoff and soil erosion in agricultural catchments*; FCT; 01-Jun-10; 31-Mai-13; 95.544,00 €
- [44] PTDC/AAC-AMB/102173/2008; *Predicting risk of soil degradation associated with biomass production and landuse changes at the Alqueva dam watershed*; FCT; 01-Jan-10; 31-Dec-12; 0,00 €
- [45] PTDC/AAC-AMB/102541/2008; *CLIMFISH - Climate changes & Fish communities of Mediterranean-type streams: potential on the bio-integrity and implications on the ecological status assessment*; FCT; 01-Mai-10; 01-Jun-13; 120.000,00 €
- [46] PTDC/AAC-CLI/111733/2009; *CLYPE - Climate change of precipitation extreme episodes in the Iberian Peninsula and its forcing mechanisms*; FCT; 01-Jan-11; 31-Dec-14; 8.400,00 €
- [47] PTDC/AAC-CLI/119078/2010; *KLIMHIST - Reconstruction and simulation of the climate of Portugal from documentary and instrumental sources by sec. XVII to sec. XIX*; FCT; 01-Mar-12; ; 33.597,00 €
- [48] PTDC/AGR-AAM/098100/2008; *EUTROPHUS - Phosphorous Diffuse Source Management and Eutrophication Control*; FCT; 01-Mar-10; 28-Feb-13; 31.800,00 €
- [49] PTDC/AGR-AAM/100979/2008; *Increasing functional biodiversity in olive groves to enhance conservation biological control of insect pests*; FCT; 15-Apr-10; 15-Apr-13; 38.300,00 €
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- [55] PTDC/AGR-CFL/120184/2010; *SysPiNema - Characterization of the pinewood nematode/ Pinus system: phytochemical and histopathological approaches*; FCT; 01-Jan-12; 31-Dec-15; 50.600,00 €
- [56] PTDC/AGR-GPL/099263/2008; *Characterization of alternative oxidase (AOX) polymorphisms in Hypericum perforatum L. – A novel approach to advance breeding on yield stability in a medicinal plant*; FCT; 01-Mai-10; 30-Apr-13; 135.045,00 €
- [57] PTDC/AGR-GPL/099512/2008; *Closterovirus silencing through transgenic grafting*; FCT; 01-Mar-10; 31-Dec-13; 0,00 €
- [58] PTDC/AGR-GPL/111196/2009; *Screening AOX polymorphic carrot genotypes from primary cultures for differential growth potentials - a model application for calorespirometry*; FCT; 01-Apr-11; 31-Mar-14; 199.144,00 €
- [59] PTDC/AGR-PRO/111717/2009; *H2OLIVE3S - Integration of in situ biophysical information on crop and land surface with remotely sensed observations to model olive water use and irrigation scheduling at local and regional scales.*; FCT; 01-Apr-10; 31-Mar-13; 92.388,00 €

- [60] PTDC/BIA-BEC/103258/2008; *Assessment of the recruitment success of the main portuguese populations of petromyzon marinus through biotransformation, stress markers and ionic transport in juveniles during the trophic migration.*; FCT; 01-Jun-10; 31-Dec-13; 152.754,00 €
- [61] PTDC/BIA-BEC/104401/2008; *Genetic assessment of a successfull invasion. Population genetics of the Egyptian mongoose (Herpestes icheneumon) in Portugal.*; FCT; 01-Jan-10; 31-Dec-13; 5.000,00 €
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- [63] PTDC/BIA-EVF/4158/2012; *Evolution of symbiosis genes in rhizobia: chickpea mesorhizobia as case study*; FCT; 18-Dec-12; 31-Dec-14; 110.000,00 €
- [64] PTDC/BIO/80932/2006; *Improvement of Rhizobia by Genetic Modification with Stress Response Genes*; FCT; 01-Jan-09; 30-Jun-12; 92.000,00 €
- [65] PTDC/CS-GEO/110944/2009; *ATILA - Transition pathways: Assessing innovation in farm management strategies*; FCT; 01-Apr-11; 31-Mar-14; 118.615,00 €
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- [67] PTDC/CTM/103181/2008; *Hybrid Sr-releasing injectable system for vertebroplasty*; FCT; 02-Mai-10; 31-Dec-12; 11.057,00 €
- [68] PTDC/EBB-BIO/099268/2008; *Exploring a novel functional marker candidate for efficient somatic embryogenesis in Daucus carota L.*; FCT; 01-Jun-10; 31-Mai-13; 140.000,00 €
- [69] PTDC/EEA-CRO/102102/2008; *AQUANET - Decentralised and Reconfigurable Control for Water Delivery Multipurpose Canal Systems*; FCT; 01-Jan-10; 31-Dec-12; 57.084,00 €
- [70] PTDC/EME-PME/105465/2008; *Physiologic supply system for in vivo evaluation of bone implants behavior*; FCT; 01-Apr-10; 31-Mar-13; 45.660,00 €
- [71] PTDC/EME-PME/112910/2009; *HIPCerDiam - Silicon nitride ceramic components coated with nanocrystalline CVD diamond for total hip replacement*; FCT; 01-Mar-11; 28-Feb-14; 39.267,00 €
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- [73] PTDC-AGR-AAM/100115/2008; *The nutritional strategy of carob-trees in calcareous soils*; FCT; 01-Mar-10; 31-Dec-13; 0,00 €
- [74] QREN/ TechLam; *Desenvolvimento e optimização em biotecnologia, de tecnologia inovadora, para produção dum novo biopesticida*; QREN; 01-Jan-11; 31-Dec-13; 32.000,00 €
- [75] Vet ImmunoCap; *The interest for standardization of specific IgE determination in veterinary medicine. Protocolo entre a UÉ e a multinacional ThermoFisher Scientific.*; ThermoFisher Scientific; 01-Jun-12;

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- [9] Batista T. 2012. Otalex – o contributo da cooperação transfronteiriça no desenvolvimento do SIG da CIMAC. Apresentação oral nas 7<sup>as</sup> Jornadas Gestão do Território e 2<sup>as</sup> Jornadas Técnicas de SIG, de 28-29 Maio 2012. Instituto Politécnico de Tomar. (Comunicação Oral por convite)
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- [14] Bettencourt, EMV Apresentação da rede ANIDOP. Jornadas: Produção de Ruminantes, Universidade de Évora, 13-15 de Abril (Comunicação oral)
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## Advanced Training - Theses

### *PhD Theses (by ICAAM members or with supervision of ICAAM members)*

- [1] Ana Cristina Rodrigues Costa (2012) "Regulação da actividade da Na,K-ATPase por glucose em célula beta-pancreática na ausência e na presença de um estado de intolerância a esta". PhD Thesis Universidade de Évora. Supervisor: Célia Maria Miguel Antunes
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## Patents

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## Computer applications

- [1] Surovy P. 2012. FastrakDigitizer 1.0 - (communicator with the Polhemus Fastrak system for acquisition and processing of 3D data)

## Prototypes

- [1] Peça JMNO, Pinheiro AC, Dias AFB (2012) MPED Prototype – Portable Machine for picking parameters of *Jatropha curcas* Linn.
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## Prizes and Distinctions

- [1] António Bento Dias. "Prémio de Mérito Académico OlivoMoura".PhD Thesis entitled: "A mecanização da poda do olival. Contribuição da máquina de podar de discos". May 2012
- [2] Elsa Caeiro. Prize of the Aerobiology Regional Monitoring Poster Session, European Association For Aerobiology. (ANTUNES, C.M.; LOPES, A.F; MOREIRA, J.; COELHO, C.; CAEIRO, E.; LOPES, M.L.; BRANDAO, R. M. (2012). "Airborne Grass Pollen and Ambient Phl p 5 Aeroallergen in Évora (south Portugal), 2009-2011", Comunicação Oral apresentada em 5th European Symposium on Aerobiology, In Alergologia Immunologia, Krakow.)
- [3] Paulo Cézanne Vieira. Best poster ONTA 2012 (Organization of Nematologists of Tropical America),Mexico, September 2012
- [4] Teresa Baptista. Prémio "Projeto SIG do ano". Distinguishes innovative projects that demonstrate the contribuition of GIS technologies to the success of organizations. March 2012
- [5] José Oliveira Peça, António Bento Dias, Anacleto Pinheiro. Prototype "Máquina de Colheita Contínua de Azeitona (MCCA-II)" selected as one of the 3 finalists in "Concurso Nacional de Inovação BES-2012" in the topic "Food and Natural Resources"

- [6] José Oliveira Peça, António Bento Dias, Anacleto Pinheiro. Prototype "Máquina de Colheita Contínua de Azeitona (MCCA-II)" was one of the 20 (among 69 submitted) innovative technologies selected for presentation at "AGRO FOOD iTECH", SIAG-Salão Internacional do Agro-Negócio. Santarém, 28-29 March 2012
- [7] Shakib Shahidian. "ECOREGA, Controlador de Rega Inteligente", was one of the 20 (among 69 submitted) innovative technologies selected for presentation at "AGRO FOOD iTECH", SIAG-Salão Internacional do Agro-Negócio. Santarém, 28-29 March 2012

## Members of Scientific and Organizing Committees (Conferences, Workshops, Courses)

- [1] Baptista F. International Symposium "Culturas Sem Solo e as Novas Tecnologias". 21st November 2012, Torres Vedras. Organizing Committee
- [2] Baptista MT, Sousa A. GISDAY UE 2012 – Universidade de Évora, 21st November 2012. (National). Organizing Committee
- [3] Belo A. International Seminar "Toxinas e Saúde Pública: a influência do meio ambiente", 30th - 31st May 2012, Universidade de Évora. Organizing Committee
- [4] Bettencourt E, Freitas A, Pinheiro C. "VIII Congresso Ibérico sobre Recursos Genéticos Animais", organized by Sociedade Portuguesa de Recursos Genéticos Animais (SPREGA) and Sociedade Espanhola para os Recursos Genéticos Animais (SERGA), 13th - 15th of September 2012, Évora. Membro da comissão organizadora. Organizing Committee
- [5] Correia M. "V Congresso Ibérico da Ciência do Solo – V CICS2012". Universidade dos Açores, Portugal. 6th - 10th September 2012. Organizing Committee
- [6] Correia M. XIV Simpósio Hispano-Luso de Nutrición Mineral de las Plantas, 14th Iberian Symposium in Plant Mineral Nutrition, Madrid, Espanha (23-26 July 2012). Organizing Committee
- [7] Correia PJ, Correia MF. 7th ISHS International Symposium on Mineral Nutrition of Fruit Plants, Tailândia (19th - 23rd May 2012). Scientific and Editorial Committees
- [8] Duarte A. "Neoturf Coberturas Ajardinadas". Workshop. Faro – Universidade do Algarve, 24th May 2012. (National). Organizing Committee
- [9] Fernandez P. "III Encontro de Sistemas de Informação Geográfica - Aplicações SIG em Recursos Agro-florestais e Ambientais", 17th - 18th May 2012, Castelo Branco. (National). Organizing Committee
- [10] Gonzalez C. VI ARALIG PhD-Course: Nature-Society Relationships in transition: Action Research methodologies to collectively deal with experience and utopia. ARALIG Network. 4-7 June 2012. Beja, Portugal. Organization
- [11] Guerrero C. 8th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '12). University of Algarve, Faro, Portugal, May 2-4, 2012. Organizing Committee
- [12] Ilhéu M, Matono P. International Conference of Temporary Rivers, TEMPRIV 2012. 12th-14th September 2012. Universidade de Évora. Organizing (MI and PM) and Scientific (MI) Committees
- [13] Martins L. "VIII Congresso do Hospital Veterinário Montenegro - Endocrinologia" and "II Congresso de Enfermagem". 11/12 February 2012. Sta Maria da Feira. (National). Organizing Committee
- [14] Moreira M. "15º Encontro de Engenharia Sanitária e Ambiental 15º ENaSB". Universidade de Évora. 10th-12th October 2012. (National). Scientific and Organizing Committees
- [15] Moreira M. Os Desafios da Implementação de Projectos de Reutilização de Águas Residuais em Portugal. Workshop. Universidade de Évora. 9th October 2012. (National). Organizing Committee
- [16] Pinheiro C, Bettencourt E. "Jornadas de Produção de Ruminantes". Universidade de Évora, 13th - 15th April 2012 (National)Scientific and Organizing Committees

- [17] Pinto-Correia T, Ramos J. Agricultural landscapes responding to multiple drivers: challenges for landscape ecology in Europe , PhD Intensive Course, 24-30 June 2012. Organizing Committee and Faculty (TPC)
- [18] Pinto-Correia T. The landscape as the basis for integrating different levels of management,policy making and otherdimensions of the rural. Workshop at the IFSA international conference, 1-4 July, Aarhus, Denmark. Organizing Committe
- [19] Pinto-Gomes C., Santos A. "VI International Seminar Biodiversity Management and Conservation: what provide ecosystems?" Tortosendo, 10th-15th June 2012. Organizing Committee
- [20] Ramos J. "Estratégias Locais de Desenvolvimento e Modelos de Governança". (National). Organizing Committee
- [21] Sampaio E. SSCR 2012 – 1st Symposium on Subsoil Characterization and Remediation, 4th June, Faculdade de Engenharia da Universidade do Porto. Organizing Committee
- [22] Silva CS, Louro R. "O Mundo Oculto dos Cogumelos - International Conference", Universidade de Évora, 11th May 2012. Organizing Committee
- [23] Silva LL. "4º Congresso Nacional de Rega e Drenagem", Coimbra, September 2012. (National) Organizing Committee
- [24] Surovy P. International Summer Seminar on Forest Resource Management. Consideration of Multifunctionality and Eco-Services Concerned. (<http://www.formath.jp/symposium/2012kawatabi/index.html>). Organizing Committee
- [25] Svensson JT. Bioinformatics workshop; sequence assembly and variant detection. 22-23 November, 2012, INOQ, Schnega, Germany. Organizing Committee and Faculty
- [26] Teixeira D. Archaeomaterials: from Diagnosis to Conservation- 6th General Intensive School on Conservation Science. Évora – 17th-24th July 2012. (International Summer School). Scientific and Organizing Committees

## Members of Editorial Boards, Consultants

- [1] Sousa PS. Handling Editor of Special Issue on Annals of Forest Science (2012-2013) (<http://link.springer.com/article/10.1007/s13595-012-0197-0>;  
<http://link.springer.com/article/10.1007/s13595-012-0228-x>)
- [2] Clara MI. Guest Editor of the Special Issue 'European Journal of Plant Pathology: Volume 133, Issue 1 (2012). Springer
- [3] Correia PJ (2012) Consultant - International Foundation for Science (IFS), Sweden

## Seminars, Conferences and Courses at ICAAM

### *International Conferences*

- [1] O mundo oculto dos cogumelos. Organization: ICAAM, Departamento de Biologia, Universidade de Évora; Naturlink; Semanário "O Registo". 11/05/2012
- [2] TEMPRIIV2012 - International Conference on Temporary Rivers. Organization: Department of Landscape, Environment and Planning, University of Évora; Guia Marine Laboratory, Centre of Oceanography, Lisbon; ICAAM. 12-14/09/2012
- [3] THE CONSERVATION BIOLOGY CONFERENCE (CBC12). Organization: Master in Conservation Biology, the 'Rui Nabeiro' Biodiversity Chair and ICAAM. 24/05/2012
- [4] VIII Congresso Ibérico sobre Recursos Genéticos Animais/SPREGA-SERGA. Organização: Sociedade Portuguesa de Recursos Genéticos Animais (SPREGA); Sociedade Espanhola para os Recursos Genéticos Animais (SERGA) com o apoio da Universidade de Évora e do ICAAM. 13-15/09/2012

## Conferences

- [1] "Custos da Saúde Animal vs Riscos para a Saúde Pública". Psrt of " Semana Veterinária Europeia 2012". Organização: Departamento de Medicina Veterinária, ICAAM e Associação de Estudantes de Medicina Veterinária da Universidade de Évora. 11/10/2012
- [2] "Estratégias Locais de Desenvolvimento e Modelos de Governança na Região do Alentejo". Final Conference from the Project "DEBATE SOBRE AS ESTRATÉGIAS DE DESENVOLVIMENTO E OS MODELOS DA GOVERNANÇA NA REGIÃO ALENTEJO", funded by "Programa para a Rede Rural Nacional". Organization: ICAAM & Monte-ACE. 05/12/2012
- [3] GISday. ICAAM "Open Day". Part of the worldwide celebration of GIS Day. Organization: CIMAC - Comunidade Intermunicipal do Alentejo Central, ICAAM, DPAO - Departamento de Paisagem, Ambiente e Ordenamento da Universidade de Évora. 21/11/2012

## Workshops

- [1] Workshop "Toxinas e Saúde Pública - A Influência do Meio Ambiente". Organization: PROJETO SAPUVETNET III e Grupos CTA e EPM do ICAAM .30- 31/05/2012
- [2] Workshop "Patologia de Peixes". Organization: Departamentos de Zootecnia, Medicina Veterinária e Paisagem, Ambiente e Ordenamento e ICAAM, Universidade de Évora. 10/05/2012

## Courses

- [1] "Caraterização sensorial na produção de azeites". Organização: Universidade Internacional de Andaluzia, Universidade de Jaén, Universidade de Évora (ICAAM, CEFAGE e NUFOR) e Conselho Oleícola Internacional. 2-6/07/2012
- [2] "Elaboração de azeites de qualidade e gestão de subprodutos". Organização: Universidade Internacional de Andaluzia, Universidade de Jaén, Universidade de Évora (ICAAM, CEFAGE e NUFOR) e Conselho Oleícola Internacional. 3-14/09/2012
- [3] "Gestão de marketing no setor dos azeites". Organização: Universidade Internacional de Andaluzia, Universidade de Jaén, Universidade de Évora (ICAAM, CEFAGE e NUFOR) e Conselho Oleícola Internacional. 17-29/09/2012
- [4] "VI ARALIG PhD course - Nature-Society Relationships in transition". Organization: ARALIG; ICAAM; CENSE-ECOMAN - UNLisboa; IP Beja; LLL and SST PhD Programs at Roskilde University, Denmark; NRML, Sweden; REFOLANA, Copenhagen University, Denmark. 3-7/06/2012
- [5] Cursos "INICIAÇÃO AOS SIG - QUANTUM GIS". Organização: GIFF-Gestão Integrada de Fogos Florestais, SA, e ICAAM. 03-04/12/2012, Évora; 05-06/12/2012, Beja
- [6] FORMAÇÃO GPS-GIS PARA RECOLHA DE DADOS DE BIODIVERSIDADE no âmbito do Projeto Europeu EuroGIS-GPS.
- [7] PhD Advanced Course "Agricultural landscapes responding to multiple drivers". Organization: IALE-Europe, APPEP (Portuguese Society for Landscape Ecology) & ICAAM. 24-29/06/2012

## Seminars

- [1] "Maria Paola Maurelli, Univ. of Naples Federico II, Italy. ""The FLOTAC and Mini-FLOTAC Techniques"". Organization: Laboratório de Parasitologia Victor Caeiro
- [2] Alfonso Calera, University of Castilla La Mancha. "Crop monitoring by means of time series of images: Improving crop management". Organização: ASC-ICAAM. 18/12/2012
- [3] António Miguel Frederico, ICAAM PhD student. "Exploring alternative oxidase (AOX) as a functional marker candidate for efficient somatic embryogenesis in *Daucus carota* L.- Hypotheses and selected preliminary results". Organization: EU Marie Curie Chair, Laboratory Molecular Biology. 10/01/2012
- [4] Cristina Schneider, Advisor, Pan American Health Organization. "Importância da Interface Animal/Humanos em Potenciais Emergências em Saúde Pública nas Américas". Organization: Grupo CTA do ICAAM e Projeto SAPUVETNET III. 23/01/2012

- [5] Daniel Malet Calvo, Univ. Barcelona. "Distâncias e proximidades entre as ciências experimentais e as ciências sociais: Uma aproximação à epistemologia da ciência através da experiência de um antropólogo". Organization: EU Marie Curie Chair, Laboratory Molecular Biology. 27/01/2012
- [6] Dr. Paul Fransz, Nuclear Organization Group, Swammerdam Institute for Life Sciences, University of Amsterdam. "Chromatin dynamics in Arabidopsis thaliana under environmental stress". Organization: EU Marie Curie Chair, Laboratory Molecular Biology. 02/03/2012
- [7] Grupo CTA do ICAAM, Departamento de Medicina Veterinária, Universidade de Évora. 11/07/2012"
- [8] Ilda de Fátima Tinoco, Universidade de Viçosa, Brasil. "Investigação em Ciências Agrárias - Ambiência e Instalações na Produção Animal - na Universidade Federal de Viçosa (Brasil). Potencialidades de Cooperação/Parceria com a Universidade de Évora". Organização: Grupo ASC-ICAAM. 22/06/2012
- [9] Jan Svensson, Department of Plant Biology and Biotechnology, University of Copenhagen, Denmark. "Fusarium head blight: can engineered starch be a solution to combat infection and mycotoxin production? ". Organization: EU Marie Curie Chair, Laboratory Molecular Biology. 18/01/2012
- [10] José Rodrigues dos Santos, Centro Interdisciplinar de História, Culturas e Sociedades (CIDEHUS), Universidade de Évora. "How social is epigenesys?". Organization: EU Marie Curie Chair, Laboratory Molecular Biology. 29/03/2012
- [11] Manuel Morales, Universidad Autonoma de Madrid. "Intensificación agraria en Europa: efectos sobre la biodiversidad y el potencial de control biológico". Organization: LabOr e Grupo EPM do ICAAM. 12/04/2012
- [12] Manuela Vilhena, ICAAM, Departamento Medicina Veterinária Universidade de Évora. "Projeto Sapuvetnet III: Presente e Perspetivas futuras". 23/01/2012
- [13] Márcia Almeida de Melo, Universidade de Campina Grande, Brasil. "Sorodiagnóstico em Medicina Veterinária: Princípios e aplicações". Organização: CTA-ICAAM. 05/12/2012
- [14] Maria J. Santos, patial History Project and Bill Lane Center for the American West, Stanford University, USA. "Conservação na Califórnia: Uma Perspetiva Histórica e Ecológica". Organization: ICAAM & 'Rui Nabeiro' Biodiversity Chair. 21/12/2012
- [15] Nahuel Peralta, Universidade Nacional de Mar del Plata, Argentina. "Relación entre la variabilidad espacial de las propiedades del sitio y el rendimiento de los cultivos". Organização: Grupo ASC-ICAAM. 03/10/2012
- [16] Paulo Paes de Andrade, Universidade Federal de Pernambuco, Brasil. "Padrões de urbanização da leishmaniose visceral no Brasil". Organização: CTA-ICAAM. 05/12/2012
- [17] Pedro F. Mateos, Univ. de Salamanca. "Biotecnología contra el hambre". Organization: ICAAM e Departamento de Biología da Universidade de Évora. 20/09/2012
- [18] Teresa Pinto Correia, Diretora do Programa de Doutoramento de Gestão Interdisciplinar da Paisagem e Diretora do ICAAM. "Doutoramento em Gestão Interdisciplinar da Paisagem - o desafio da integração" Integrado na Conferência: "Interdisciplinaridade. Que Estratégias?", Organização: Instituto de Investigação e Formação Avançada no âmbito da Semana Ciência & Tecnologia e no Dia Nacional da Cultura Científica
- [19] Toshiaki Owari, Univ. of Tokyo. "Management and research of conifer-hardwood mixed forests at the University of Tokyo Hokkaido Forest, northern Japan". Organização: Grupo EPPM, ICAAM. 13/07/2012

### **ICAAM Seminars 2011/2012**

- [1] Carlos Godinho, EPM-ICAAM. "O papel das aves nos ecossistemas agro-silvo-pastoris". 07/11/2012
- [2] Celeste Silva, EPM-ICAAM. "Produção "in vitro" e "in vivo" de cistáceas inoculadas com túberas (Terfezia spp.)". 16/03/2012
- [3] Elsa Lamy, CTA-ICAAM. "Influência da composição proteica da saliva na sensibilidade gustativa". 30/03/2012
- [4] Elsa Leclerc Duarte, CTA-ICAAM. "The role of wild Leporidae as infectious agents reservoir". 08/06/2012
- [5] Elsa Sampaio, ASC-ICAAM. "Efeitos da Ocupação e Uso do Solo na Ecohidrologia de pequenas bacias hidrográficas em clima Mediterrânico". 27/04/2012

- [6] Elvira Sales Baptista, CTA-ICAAM. "Efeitos das restrições alimentares durante a seca estival no comportamento de pastoreio de ovelhas em Montado". 02/03/2012
- [7] Fernando Rei, CTV-ICAAM. "Incremento da biodiversidade funcional do olival, no fomento da proteção biológica contra pragas da cultura". 31/10/2012
- [8] Gottlieb Basch, CTV-ICAAM. "Interacção entre o sistema de manejo do solo (SMS), o manejo de resíduos (MR) e a incorporação de azoto e seu efeito sobre a evolução das fracções da matéria orgânica do solo". 16/03/2012
- [9] José Rafael Marques da Silva, ASC-ICAAM. "From detection to decision: Plant and soil sensing to support management of natural and artificial environments". 08/06/2012
- [10] Luiz Gazarini, EPM-ICAAM. "Uso e manejo do solo em região mediterrânea (sub-úmida – seca): sistema de produção, conservação e sequestro de carbono". 13/04/2012
- [11] Margarida Vaz, EPM-ICAAM. "Integração das respostas ecofisiológicas do sobreiro (*Quercus suber* L.) em modelos de crescimento estruturais-funcionais". 27/04/2012
- [12] Maria João Cabrita. CTV-ICAAM. "Estudo da composição volátil e fenólica de vinhos com madeira: Influência da espécie botânica e do grau de tosta". 13/04/2012
- [13] Maria Madalena Moreira, ASC-ICAAM. "Avaliação do risco associado à aplicação das curvas IDF em projectos de engenharia, no contexto de um clima em mudança". 27/04/2012
- [14] Maria Paula Simões, EPM-ICAAM. "Efeitos do uso do solo na regeneração de *Quercus suber* L.". 02/03/2012
- [15] Miguel Elias, CTA-ICAAM. "Avaliação da utilização de uma cultura de arranque bacteriana no fabrico de um tipo de paio de porco Alentejano". 30/03/2012
- [16] Nuno Guiomar, ASC-ICAAM. "Incêndios Florestais: da prevenção à recuperação ". 03/10/2012
- [17] Rui Brandão e Célia Antunes, CTA-ICAAM. "Pólenes, Aeroalergénios e Saúde Pública: O Projeto HIALINE". 17/10/2012
- [18] Shakib Shahidian, ASC-ICAAM. "Padrões climáticos sazonais e a evapotranspiração ". 03/10/2012
- [19] Solange Oliveira, CTV-ICAAM. "Avaliação da diversidade e tolerância ao stress de rizóbios em Portugal". 27/04/2012

## Open Lectures

- [1] Open Lecture "The Common Agricultural Policy: is it really changing?". Anne van Doorn, ALTERRA, NL. Part of the PhD Advanced Course "Agricultural landscapes responding to multiple drivers".
- [2] Open Lecture "Understanding and studying change of agricultural landscapes". Marc Antrop, University of Gent, BE. Part of the PhD Advanced Course "Agricultural landscapes responding to multiple drivers".
- [3] Open Lecture "What is shaping rural development in agricultural Europe?". Terry Marsden, Sustainable Places Research Institute, Cardiff University, UK. Part of the PhD Advanced Course "Agricultural landscapes responding to multiple drivers".

## Biology Seminars - PhD Programme in Biology

- [1] Diogo Alagador, Cátedra Rui Nabeiro, Universidade de Évora. "Spatial prioritization for biodiversity conservation". 29/02/2012
- [2] Eduardo Barata, CCMar/CIIMAR, Universidade de Évora. "Pheromones and modulation of social behaviour in fishes: origin, mechanisms and functions". 18/04/2012
- [3] Fernando Capela e Silva, ICAAM-Universidade de Évora. "Homeostase Celular nos Tecidos". 15/02/2012
- [4] François Guilhaumon, Cátedra Rui Nabeiro, Universidade de Évora. "Species-Area Relationships: a central tool for ecological studies and conservation applications". 28/03/2012
- [5] Helena Adão, IMAR-CMA, Universidade de Évora. ""Benthic nematodes as a tool to evaluate the ecological conditions of estuarine and marine ecosystems"". 16/05/2012

- [6] Márcia Barbosa, Cátedra Rui Nabeiro, Universidade de Évora. "Modelling species' distributions and ecological niches". 09/05/2012
- [7] Paulo Pinto, CGE, Universidade de Évora. "Escalas temporais dos impactes dos fogos florestais sobre os ecossistemas lóticos". 11/04/2012
- [8] Paulo Sá Sousa, ICAAM, Universidade de Évora. "Em rota de colisão: os anfíbios e as rodovias". 02/05/2012
- [9] Pedro Raposo de Almeida, Universidade de Évora. "Teste de um transmissor acústico dotado com um acelerómetro 3D (Acceltag) em xaroco". 14/03/2012
- [10] Rui Brandão, ICAAM, Universidade de Évora. ""Climatic Changes and Pollens Counts"". 30/05/2012
- [11] Teresa Cruz, Universidade de Évora. "Recruitment of intertidal barnacles in SW Portugal". 21/03/2012
- [12] Teresa Fernandes, CIAS, Universidade de Évora. "Populações humanas do passado, reconstrução de perfis biológicos e de padrões de saúde". 07/03/2012

## Science and Society

- [1] "Historial da cultura, dados económicos e desenvolvimento tecnológico". Talk at "Seminário - O Valor dos Citrinos no Algarve. O Mercado, Produtos e a Comercialização". Amílcar Duarte. Alte, 31st May 2012
- [2] "O Fascínio das Plantas. Plantas contadoras de histórias". Fascination of Plants Day. Universidade do Algarve, Faro. Talk. Amílcar Duarte. 18th May 2012
- [3] "A cultura in vitro de células, tecidos e órgãos vegetais", Augusto Peixe, ICAAM. "Part of the Fascination of Plants Day 2012". Talk. 18/05/2012
- [4] "Caixas-ninho para aves agrícolas e florestais: alguns exemplos da sua aplicação". OBSERVANATURA, Setúbal. Inês Roque & Carlos Godinho. Oral Communication by invitation. 13th October 2012
- [5] "Flora espontânea com interesse ornamental", Isabel Pires Pereira, ICAAM. "Part of the Fascination of Plants Day 2012". Talk. 18/05/2012
- [6] "Manual de Boas Práticas de Gestão do Montado para as Aves". FICOR-Feira Internacional da Cortiça, Maio, Coruche. Oral Communication by invitation. Carlos Godinho. May 2012
- [7] "O Fascínio das Plantas" - Hands-on activities and exhibiton for the general public. "Part of the Fascination of Plants Day 2012". Jardim Público de Évora. 18/05/2012
- [8] "O Fascínio das Plantas", Gottlieb Basch, ICAAM. Part of the "Fascination of Plants Day 2012". Talk. 18/05/2012
- [9] "O Fascínio do Montado", Carlos Vila Viçosa, ICAAM. "Part of the Fascination of Plants Day 2012". Talk. 18/05/2012
- [10] "Passeio Micológico, O mundo dos cogumelos", Ordem dos Biólogos. Celeste Santos e Silva e Rogério Louro. 15th December 2012
- [11] "Passeio Micológico, VI Feira do Cogumelo e do Medronho", S. Barnabé. Celeste Santos e Silva. 25th November 2012
- [12] "Pigmentos, Aglutinantes e ... Pinceladas! "Workshop for Universidade Séniior Túlio Espanca da Universidade de Évora. Dora Teixeira. November 2012.
- [13] "Plantas Aromáticas do Alentejo e Suas Aplicações", Maria do Rosário Martins, ICAAM. "Part of the Fascination of Plants Day 2012". Talk. 18/05/2012
- [14] Belén Etchegaray, FNA (Fotografia de Naturaleza Argentina). Workshop "Fotografia de Natureza". 11/05/2012
- [15] CICLO DE PASSEIOS ICAAM - "CONHECER A MITRA". Aurora Carapinha, Departamento de Paisagem, Ambiente e Ordenamento da Universidade de Évora e Manuel Patrocínio, Departamento de História da Universidade de Évora. Tema: História e Arquitetura Paisagista. 31/03/2012
- [16] CICLO DE PASSEIOS ICAAM - "CONHECER A MITRA". João Rabaça, Luiz Gazarini e Paulo Sá-Sousa, ICAAM. Tema: Ambiente. 05/05/2012
- [17] CICLO DE PASSEIOS ICAAM - "CONHECER A MITRA". Jorge Oliveira, Departamento de História da Universidade de Évora. Tema: Arqueologia. 10/03/2012
- [18] Ciência Viva no Laboratório – 9 estágios de 1 semana para 35 alunos do Ensino Secundário

**Knowledge connecting land, food and people**

- [19] Ciência Viva no Verão/Biologia no Verão – 8 ações de 1 dia para 103 participantes
- [20] Dia Aberto “Cogumelos no ICAAM” - Traga os seus cogumelos, venha conhecê-los! Celeste Santos e Silva e Rogério Louro, ICAAM. 06/12/2012
- [21] Participation in the "1º Encontro Hispano-Luso de Micologia". Celeste Santos e Silva e Rogério Louro. Coruche. 19-21/11/2012
- [22] Photo Exhibition "Biodiversidade na Argentina". Organization: ICAAM (Amely Zavattieri/UDIT) and FNA (Fotografia de Naturaleza Argentina). 3-17/05/2012
- [23] Photography competition "Um Olhar pela Biodiversidade no Alentejo". Organization: ICAAM (Amely Zavattieri/UDIT) and FNA (Fotografia de Naturaleza Argentina). 12/05/2012
- [24] School Visits - 5 student groups from the following schools: EB 2,3 André de Resende, Évora; EB 2,3/S Cunha Rivara, Arraiolos
- [25] Technical Counselling Service on Mycology Resources. Celeste Santos e Silva e Rogério Louro. Starting date: 6th December 2012.
- [26] WORKSHOP “Flora espontânea com interesse ornamental”. Cruz C, Pereira IP. Part of the "Fascination of Plants Day 2012". 18/05/2012
- [27] Workshop “Russulales e Pluteales”, Faculdade de Ciências. Universidade da Extremadura, Badajoz. Celeste Santos e Silva e Rogério Louro. 13th November 2012
- [28] Workshop de Cogumelos - Encontro do Outono no montado da Herdade do Freixo do Meio. Celeste Santos e Silva e Rogério Louro. 11th November 2012



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