

2018

ACTIVITIES REPORT



CITAB

Compiled and edited by

***CITAB Executive Committee
and Lígia Pinto***

INDEX

1. EXECUTIVE SUMMARY	2
2. OBJECTIVES AND ACHIEVEMENTS	4
2.1 UNIT DESCRIPTION	4
2.2 GENERAL OBJECTIVES	5
2.3 SCIENTIFIC OBJECTIVES	5
2.4 FUNDING	6
2.5 MAIN ACHIEVEMENTS	7
2.6 OUTREACH ACTIVITIES	11
2.7 PRIZES, AWARDS AND DISTINCTIONS	16
2.8 INTERNATIONAL DOCTORAL PROGRAMMES	17
2.9 FUNDED PROJECTS AND INDUSTRY CONTRACTS	19
3. PRODUCTIVITY METRICS	28
3.1 PUBLICATIONS IN PEER REVIEWED JCR JOURNALS	28
3.2 PUBLICATIONS IN PEER REVIEWED INTERNATIONAL JOURNALS	44
3.3 PUBLICATIONS IN NATIONAL JOURNALS	46
3.4 BOOKS	46
3.5 BOOK CHAPTERS	47
3.6 COMMUNICATIONS IN NATIONAL AND INTERNATIONAL EVENTS	49
3.7 THESIS	73
3.8 TECHNICAL REPORTS	76
3.9 PATENTS	77

1. EXECUTIVE SUMMARY

This report presents activities made during the first year after the restructuring of the CITAB. Resulting from this process not only was elected a new Director (Professor Ana Barros) and her new team of Vice Directors, Principal Researchers, Coordinators and Executive Committee, but also the rethinking on the tasks within the Thematic Strands (TS).



CITAB's 2018 Activity Report Plan shows continuing success in the realisation of the Strategic Plan (SP); levels of scientific productivity and participation in international projects (e.g. INTERREG Atlantic Area) and doctoral programmes (Water, Sustainability and Development- in collaboration with the University of Vigo and Porto Polytechnic) continue to

rise as well as links with stakeholders and strategically important partners (INESC-TEC).

The centre's strategic mission is to create opportunities for stakeholders through scientific and technological innovation in agro-food and forestry chains that support environmental sustainability. The 2015-2020 Strategic Plan has two thematic areas:

- Sustainability of Agri-food and Forestry Ecosystems in a changing environment;
- Technology & innovation in Agri-food and Forestry chains for a more competitive bio economy.

During 2018 the new team tried to simplify the tasks within each thematic area. This streamlining process was based on assessment of past performance per task, feedback from members and metrics obtained from the previous reports, but always focused on stakeholder needs for more competitive and sustainable Agri-food and Forestry chains through innovative scientific and technology.

CITAB received 200.000€ from FCT pluriannual funding 2015-2018 and researchers, in particular the contracted postdoctoral research fellows, continue to search and apply for external funding from national and European project calls and consultation with private and public sector stakeholders.

The new Board is fully committed to addressing the uncertainty that faces non-faculty researchers by dedicating funding to contracting skilled human resources to ensure that PEST deliverables and milestones are met. A new strategic partnership was formed with INESC-TEC and CIIMAR. INESC-TEC, an internationally oriented multidisciplinary Associate Laboratory with over than 30 years of experience in R&D and technology transfer.

The INESC-TEC mission “to achieve advancement in science and technology and to enable science-based innovation through the transfer of new knowledge and technologies to industry, services and public administration” goes hand-in-hand with that of CITAB. This new partnership will improve capacity for obtaining funding in key areas of SP and generate new synergies. CIIMAR is a leading research and advanced training institution of the University of Porto, working at the frontier of Ocean Knowledge and Innovation. CIIMAR fosters an integrated approach to Ocean and coastal areas promoting the understanding and knowledge of Biological, Physical and Chemical dynamics of these environments and the impact of natural and human activities, aiming to unravel the links between these processes, grasp Ocean and ecosystem functioning and responses to Global Change. The CITAB-INESC-TEC-CIIMAR consortium will organise a series of half-day focus meetings between 2018 – 2022 to gather together researchers that work in complementary areas to give presentations about their work, share ideas on future project development and join international research networks. As a result of the new partnership with INESC-TEC, the “ForestWISE – Collaborative Laboratory for Forest and Fire Integrated Management” was created at UTAD, coordinated by the INESC-TEC and comprising a consortium of 16 institutions made up of the main national universities, R&D centers, industries and forestry agents of Portugal. Its purpose is to drive forward all agents of the forest sectors through developing research and development, innovation and transfer of knowledge and technology in order to preserve the sustainability of the forest resources, to minimise the risks of the wildland fires and to optimise the benefits of the forest to the society, enhancing the qualified and scientific employment.

It was also created and hosted at UTAD, with ADVID as a promoter, the Collaborative Laboratories "Vines & Wines", which aims to increase the volume and value of Port wine in the world market, as well as the search for efficient responses from economic agents to the processes of climate change. This laboratory brings together several universities, business sector and R&D Institutions around the success of national winemaking, especially the collective brands "Wines of Portugal" and “Port Wine”.

In the same way, several CITAB researchers were directly involved in the creation and start-up the research activities of the CoLab “4FOOD-Collaborative Laboratory for Innovation in the Food Industry” to promoting the collaboration framework between stakeholders from the food sector. The consortium comprises fifteen institutions including main national universities, R&D centres and main stakeholders of the food sector, in order to meet the needs and expectations of the food sector, providing scientific and technological competencies to solve large-scale problems.

2. OBJECTIVES AND ACHIEVEMENTS

2.1 UNIT DESCRIPTION

CITAB activities focus on interdisciplinary research on agro-food and forestry systems using the production-chain approach as a whole. It is composed of a multidisciplinary team with expertise ranging from fundamental sciences such as biology and chemistry to agronomists, forestry engineers and ecologists. The group benefits from the input of other scientific experts in the fields of mathematics, physics, technological engineering and engineers.

Implemented in 2015, the Strategic Project (SP) brought a more focused, streamlined approach based on two thematic areas created to resolve issues in agriculture and forestry production chains and their impact on the natural environment. The SP aims to balance scientific excellence with benefits and consequences across multiple dimensions of environmental and socioeconomic needs.

CITAB activities are based upon on the contribution of integrated members (members with a PhD) and collaborators who are selected according to international benchmarking criteria. Most CITAB members are primarily lecturers; thus, the Unit offers international doctoral programs and supports post-graduates from the host institution and others higher education institutes.

The CITAB management structure is “bottom-up”: the Board (1 Director and 2 Vice-Directors) is supported by the Executive Committee (ExCo; 6 members, guided by the ExCo president) to form a dynamic two-way link between members and the Directorate for strategy development, progress checking and decision-making. Major strategic issues are discussed by the scientific council (members with PhD) and put to the vote.

The ExCo is also responsible for compiling information for reports and collaborating in actions to promote CITAB on local, regional, national and international platforms. The Directorate and the ExCo meet “face-to-face” approximately once every 2 months, but are in constant contact via e-mail and telephone concerning day-to-day management issues.

Research group members also hold regular meetings to evaluate progress according to SP and Activity Plan milestones. CITAB regulations stipulate that the Scientific Council must meet a minimum of 4 times a year. In reality, the “bottom up” approach means that the actual number of meetings tends to be higher. Also, two managers are contracted to deal with all administrative and financial tasks, and provide support to the Directorate and the ExCo.

2.2 GENERAL OBJECTIVES

The SP aims to solve societal, public, private (such as small and medium enterprises - SMEs) and third sector problems in agriculture and forestry production chains, including their impact on the environment. The SP applies scientific excellence and innovation to reap benefits across environmental and socio-economic dimensions. The SP is highly multidisciplinary, embracing benchmark science and the human dimension of contemporary issues.

The SP embodies strong challenges, research priorities and objectives that are drawn up by consulting stakeholders, public institutions and private and public associations in the agriculture and forestry production sectors. The SP also considers the objectives of the 2014-2020 National Programme for Rural Development (PDR), the Portugal 2020 national strategy for improving competitiveness and internationalization of economic activities and the international Horizon 2020 programme. By developing the SP in tandem with key national and international strategies, CITAB reinforces its relevance in the development and implementation of national and international policies and obtains external funding to support tasks that contribute to meeting SP objectives.

The two overarching SP research topics were drawn up and validated by the CITAB Stakeholder Committee, the CITAB Scientific Advisory Committee, and the Scientific Council. The research topics address national and regional needs to improve capacity and fill gaps in science. Predicted outcomes are drawn up in accordance with the FCT finance requested to fund the SP as well as other sources of finance.

The SP provides a model for developing sustainable but competitive agri-food and forestry chains. R&D initiatives serve as pilot projects for agri-food and forestry chains and environmental issues to boost competitiveness, empower stakeholders and SMEs, sustain livelihoods and promote responsible stewardship of the natural environment and the ecosystem services it provides.

2.3 SCIENTIFIC OBJECTIVES

The overarching topics of the Strategic Plan allow CITAB to:

- attain a higher research profile based on international benchmarking criteria;
- carry out ground-breaking national and international research;
- guide the effective governance and management of natural resources.

Research priorities must be cost effective, environmentally compatible and driven by sustainable socio-economic paradigms. Research is carried out under two strongly multidisciplinary thematic strands (TS) that build on existing expertise to meet specific goals within tasks set out in Figure 1.



Figure 1. The CITAB Strategic Plan focuses two related topics or Thematic Strands, and each of them includes two tasks.

The aims of the new tasks still focus on stakeholder needs for more competitive and sustainable Agri-food and Forestry chains through innovative scientific and technology.

The researchers, previously divided by 3 research lines (Sustainable Agro-food Chains, EcoIntegrity and Biosystems Engineering) were integrated into the new tasks in order to maximize the interaction between all researchers of the center.

2.4 FUNDING

	2016	2017	2018	Subtotal
FCT Pluriannual	200.000,00€	200.000,00€	200.000,00€	600.000,00 €
FCT Projects	90.692,11 €	90.692,11 €	278.210,30 €	459.523,53 €
Other (National)	1.189.518,30 €	2.120.680,74 €	2.353.730,02 €	5.663.929,05 €
Other (International)	290.854,96 €	475.487,06 €	634.724,10 €	1.401.066,12 €
Industry	589.069,37 €	759.075,78 €	784.743,78 €	2.132.888,92 €
Total	2.360.134,74 €	3.654.935,69 €	4.251.408,20 €	10.257.407,53 €

2.5 MAIN ACHIEVEMENTS

2.5.1 THEMATIC STRAND 1 - SUSTAINABILITY OF AGRI-FOOD AND FORESTRY ECOSYSTEMS IN A CHANGING ENVIRONMENT

TS1 monitors and assesses how different types and scales of impacts affect agri-food and forestry chains systems, biodiversity and ecosystem services. TS1 develops and tests integrated measures for sustainable strategy development, planning and governance. It applies multidisciplinary research to develop integrated tools and methodologies to monitor how multiple scale impacts affect ecosystems and biodiversity.

TS1 tests innovative monitoring techniques and develop spatially appropriate dynamic models to test regional adaptation & mitigation strategies and support decision-making processes. The two tasks set out under TS1 are Task 1.1 Integrated monitoring of climate and environmental impacts and Task 1.2. Sustainability in agri- food and forestry ecosystems. Results allow stakeholders (e.g. water resource managers, agricultural and forestry associations) to develop optimal management strategies to guarantee sustainability and competitiveness in agri-food and forestry chain environments affected by various types of impacts.



TS1 deliverables are fundamental for governance, decision-making and planning processes in regional strategy, processes often driven by cornerstone European directives. TS1 deliverables increase regional valorization and competitiveness in agriculture and forestry production chains by reducing costs and risks, improving ecosystem sustainability and providing ecosystem services due to reduced impacts.


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Task 1.1 – Integrated monitoring of climate and environmental impacts



Downscaling methodologies and climate change projections


Development of state-of-the-art downscaling methodologies, applied to climate model outputs, and development of climate change projections until the end of the 21st century for atmospheric parameters and bioclimatic indices over Europe. An innovative and very high-resolution viticultural zoning (1 km resolution) was developed for Portugal. Furthermore, crop models were applied to current and future climate change scenarios to simulate grapevine phenology, yields, stress parameters (water, heat and nitrogen), among other relevant parameters, at both European and Portuguese-wide scales.


-  **Aquatic contaminants action on a climate change scenario**


Exposure to environment relevant concentrations of endocrine disruptors compounds (xenoestrogens and aromatase inhibitors) were able to disturb the reproductive fitness on a model fish species (*Danio rerio*). Furthermore, when exposures to xenoestrogens were combined with alterations on water temperature, simulation of potential climate changes, the compounds effects were exacerbated.
-  **Cover crop systems**

Design of cover crop systems for rainfed vineyards and olive groves to improve biodiversity and reduce chemical inputs.


Task 1.2 – Sustainability in agri-food and forestry ecosystems


-  **Multi-modelling frameworks to support decision-making from local biodiversity management to landscape planning**


Development of predictive tools and methodologies with application in the management and conservation of ecological values, driven by multiple processes of environmental and landscape changes. Our worldwide unique and novel modelling protocol, designated by the acronym StDM (Stochastic Dynamic Methodology), provides a sequential framework that combines the added-values of process-based, correlative and geographic information modelling approaches in order to determine spatial and temporal relevant patterns of biodiversity, landscape composition and ecosystem services.
-  **Adaptation strategies for grapevines**

Development of new short-term adaptation strategies related with particle film application to prevent leaf sunburn damage and drought stress in grapevines, increase and stabilize the yield and wine quality, and promote sustainable viticulture to mitigate the effects of predicted climate change in different geographical areas.
-  **Greenhouse gases reduction technologies**

Studies evaluating the effect of stored dairy slurries treated by acidification, mechanical separation and addition of biochar showed significant reductions of NH₃ (50%), methane (80%) and nitrous oxide (20%) emissions using acidification. Additional NH₃ and N₂O emission reduction rates were obtained after soil application of slurries treated by mechanical separation, acidification and addition of nitrification inhibitors. These treatments are viable, environmentally beneficial techniques and confer a fertilizer value equivalent to mineral nitrogen application in a Mediterranean maize-oat cropping system.

-  **Support to decision-making in prescribed-burning management**

Prescribed burning research resulted in practical recommendations for the use of fire to reduce fuel hazard in eucalypt plantations, in the form of a field guide and software. These, and previous findings, are embedded in an online tool for fire-management decision making produced by Instituto Dom Luiz (University of Lisbon) with CITAB's cooperation. Overall, the cumulative output of CITAB's research has informed current practices and supported policies promoting the increased use of prescribed burning in Portugal and even elsewhere in southern Europe.
-  **Fostering the cultivation of minor used crops**

Achievement of comprehensive quality information of several varieties of beans and cowpea, for their nutritional and phytochemical contents. The production of innovative food products and the sustainability of these legume cropping systems under abiotic and biotic stresses.
-  **Irrigation of chestnuts as valorisation strategy**

Studies of the effect of irrigation, through different irrigation systems, on the chestnut's quality, size, and chemical composition demonstrated that the soil moisture increases mineral absorption and minerals leaves' content, especially in the end of summer. The positive effect of irrigation on the chestnut size was clear and chemical analysis showed that irrigation did not negatively affect the chemical composition of the chestnut, keeping their nutritional value and sensory characteristics. Regardless of the non-existence of significant differences between irrigated treatments, the overall results of fruit calibre, firmness and tastiness, namely sweetness, of the chestnuts obtained from the sprinkler system, suggest that this type of irrigation suits perfectly to achieve high chestnut yields and quality.

2.5.2 THEMATIC STRAND 2 - TECHNOLOGY & INNOVATION IN AGRIFOOD AND FORESTRY CHAINS FOR A MORE COMPETITIVE BIO ECONOMY

TS2 focuses on regional, national and international trends in agro-food industry stakeholder profiles and regional agri-food, forestry and socio-economic characteristics. The aim of TS2 is to use innovation to strengthen sector competitiveness by improving and expanding the potential range of products on offer. The TS2 sequential mode originally comprised three tasks but has been reduced to two, tasks that are more streamlined in 2017: Task 2.1 - Innovative technologies and processes and Task 2.2 - Valorization of biobased products



and co-products. TS2 develops R&D innovative technologies and processes to valorize products and optimize processes in the recycling, reuse & recovery of raw materials in agri-food and forestry chains. TS2 deliverables provide positive feedback into TS1 by reducing environmental impacts from agri-food and forestry sectors.

Task 2.1 – Innovative technologies and processes

Machine learning based (hyperspectral images) prediction models for grape quality assessment

Development of oenological parameter (pH, sugars, and anthocyanin content of whole grape berries) prediction models, using data from hyperspectral imaging of local grape varieties (Touriga Nacional, Touriga Franca and Tinta Barroca). Machine learning regression models (Artificial Neural Networks - ANNs and Support Vector Machines - SVMs) were applied to validation and test datasets. This approach outperformed traditional chemometric methods, particularly for anthocyanin measurement. The ANN model was tested on oenological parameters for other vintages and varieties, producing promising results. A similar grape variety (and clones) discrimination approach was assessed in a worldwide study as an alternative to ampelography, isozyme and DNA analysis.

Mechanical wood testing

Characterization of mode II fracture behaviour of wood using the four-point end-notched flexure test. Identification of earlywood and latewood radial elastic modulus of *Pinus pinaster* by digital image correlation and finite element updating. Measurement of non-linear shear behaviour of cortical bone by coupling the Arcan test with digital image correlation. Development of a direct and an inverse method to evaluate the mode II cohesive law of cortical bone. Development of an inverse identification method to determine the longitudinal elastic modulus of cortical bone through bending test of long bones of animal models.

Task 2.2 – Valorization of bio-based products and co-products

Selection and development of improved biofertilizers for legumes

Improved biofertilizers for legumes based in plant growth promoting rhizobacteria (PGPR), including rhizobia, and arbuscular mycorrhizal fungi (AMF) were selected. These selected microbial inoculants are currently used in field experiments, in chickpea (*Cicer arietinum* L.) and cowpea plants (*Vigna unguiculata* (L.) Walp), where different water regimes were imposed, in order to evaluate their tolerance to water deficit stress, adaptation to acid soils and improvement of plant productivity.

A large number of rhizobia and other PGPR species associated to legumes were also characterized by phylogenetic analysis aiming to increase the knowledge in

the legume-rhizobia interactions and the diversity of these beneficial microorganisms in Portuguese soils.

 **Evaluation of therapeutic and toxicological properties of natural substances *in vivo***

Carrying out *in vivo* studies on the therapeutic and toxicological properties of plant extracts from Portuguese ethnobotanical floral species, such as *Castanea sativa* flower and *Laurus nobilis* (laurel) extract. *Castanea sativa* flower extracts has proven their anti-inflammatory properties in the animal model of prostate cancer chemical induced. Laurel aqueous leaves extract toxicological and anti-tumor activities in HPV16-transgenic mice showed no toxic effects concerning hematological, biochemical and hepatic oxidative stress markers. New doses of both components will be evaluated in these and other models.

 **Aromatic and medicinal plants properties**

The chemical composition of *Thymus carnosus* Boiss (an endangered species endemic to Portugal) extracts were described, and a salvianolic A isomer, which has not been described in *Thymus* genus before, was identified. Studies in *T. carnosus* extracts showed that this species possesses significant antioxidant, anti-inflammatory and anti-proliferative activities, and that may be suggested as a new potential source of natural antioxidants and its decoctions as a novel functional food. Also, it has been described the potential of *Thymus pulegioides* L. as an alternative and valuable source of functional ingredients as its extracts possess antioxidant, anti-proliferative, high neuroprotective, and moderate anti-aging activities. It was demonstrated that Essential Oils from Mediterranean medicinal plants can be successfully used as matrix components of nanostructured lipid carriers (NLC).

 **Novel products and biocontrol agents from by-products and wastes**

Assessment of several distinct by-products from the agrifood industry and particularly from the winery industry, for the production of new cosmetic, pharmaceutical products. Wine red varieties have higher content of phytochemical compounds, but white varieties showed remarkable anti-microbial activity. It has been recently observed that these compounds do not suffer visible losses through degradation when deposited.

2.6 OUTREACH ACTIVITIES

CITAB researchers organized or took part in more than 65 outreach activities during 2018.

Directed to High school students

CITAB outreach activities offered a wide range of activities (exhibitions, films, guided tours, lectures, laboratory experiments, workshops, and interactive demonstrations) and gave to secondary school students a first “hands-on” contact with research, to generate interest and enthusiasm that may help them decide on their future vocation.



Left - Learning mouses' administration; Center - Kindergarden children eating broccoli biscuit; Right - High School students analysing legume seeds.

- ☺ Activity: Co-organized by members of the CITAB from 25th to 29th June about 300 young people (8 – 16 years old) participated in the sixth edition of “UTAD Junior University”, with the theme “COOLtiva-te” and under the aegis of the UNESCO's European Year of Cultural Heritage.
- ☺ Activity: On 29th March took place the 17th edition of the “UTAD Open Day”, involving about 800 secondary school students.
- ☺ Activity: Open Weekend at University of Minho, 20th of April. 150 High school students were received by researchers from 8 labs working on different Biology areas.
- ☺ Activity: Organized by members of the CITAB, 6 activities in the scope of "Living Science in the Laboratory - Scientific Occupation of Youth in the Holidays" were held in July, from 2 to 6 and from 9 to 13, involving 10 students from different regions of the country:
 - ✓ Evaluation of the Antioxidant Potential of Compounds Extracted from Aromatic and Medicinal Plants;
 - ✓ In vivo evaluation of biocompatibility of biomaterials for cartilage regeneration;
 - ✓ Microbiological analysis and the antibiotic susceptibility profile of aquaculture water: environmental impact;
 - ✓ Plant Extract and its Antimicrobial Potential: Alternative to antibiotics?;
 - ✓ The effect of natural compounds on cancer animal models;
 - ✓ The scientific journey from the cell to the ecosystem.
- ☺ Activity: “Como acordam as plantas na primavera? Estudo dos mecanismos bioquímicos e moleculares envolvidos na quebra da dormência das plantas” under the program “O Melhor Aluno na UMinho 2018”
- ☺ Activity: “Investigação em Biologia Vegetal Aplicada e no setor Agro-alimentar–avaliação de atividades antioxidantes e antígenotóxicas de extractos vegetais” during the “Verão no Campus”, at University of Minho.
- ☺ Talk: “O que é que comemos quando comemos comida?” at Escola Secundária Eça de Queirós in Póvoa de Varzim, 2nd of March
- ☺ Talk: “Agora que o genoma humano está sequenciado, o que fazer?” at Escola Secundária da Póvoa de Lanhoso, February

- ☺ Project scientific orientation: Tarolos lógicos com...eco. 15th edition of Prémio Fundação Ilídio Pinho Ciência na Escola (2017/18). Agrupamento de Escolas Raul Proença - EB Santo Onofre 4º Escalão. Selected for National Exhibition at Pavilhão Carlos Lopes, Lisboa, awarded with an Honourable mention.

Directed to Elementary school students

- ☺ Project: Cenas & Ciências (experimental labs) aims to promote motivation and school success in pre- and elementary school students, Terras de Bouro.
- ☺ Activity (monthly): “Ciência p’ra que te quero” : “Is your house sustainable? Let’s save the Cultural Heritage”; “The sustainability of liquids that are also patrimony”, “Food – from sustainability to patrimony” or “Earth: a planet of waste?!” among others.
- ☺ Activities: Science and Technology Week - CITAB researchers received and visited several schools of Vila Real (Escola Primária EB2, Jardim de Infância de Torneiros, Escola do Bairro S. Vicente de Paula, Colégio da Boavista and Escola de S. Pedro), to present their work to students aged from 3 to 17. This included: a visit to the arboretum; a visit to the Forest Products Laboratory; an activity on the health benefits of Brassicas consumption; a talk on the importance of the use of animal models in biomedical research; and a demonstration on how plant DNA can fight climate changes.
- ☺ Talk: ‘Investigação em fogos florestais e uso do fogo como ferramenta’ Summer Camp at Mata do Choupal (Coimbra), 28th-29th of June, in collaboration with CASPAE-IPSS.

Directed to general society

- ☺ Activity: The CITAB pole at the University of Minho participated in the European Researchers’ Night (NEI) in Braga on 28th September 2018. Promoted every year as part of the European Commission’s Marie Skłodowska-Curie programme, this event brings citizens closer to scientists and the work they do in an informal setting. For the seventh consecutive year, the Science Faculty at University of Minho organized integrated activities. NEI18 was organized as part of the SCICITY project - Science in Everyday life.
- ☺ Activity: Open Weekend at University of Minho, 21st of April, it was presented to the general public the "IB-S - Instituto de Ciência e Inovação para a Bio-Sustentabilidade”.

Other outreach activities

- ☺ The second International Summer University on Geoparks, Sustainable Regional Development and Healthy Lifestyles took place at UTAD (9th – 20th July 2018). It account with the involvement of 22 participants from 10 countries. The summer university was highly multidisciplinary, using theory and practical approaches.

- 🕒 Workshop: Scientific Writing, 17th of October in collaboration with ReadyToPub.
- 🕒 Workshop: “Valorização de subprodutos no setor vitivinícola” UTAD Summer Campus, 27th of September.
- 🕒 Talk: “Valorização de coprodutos da indústria vitivinícola: engajo da uva, fonte de compostos bioativos”. UTAD Summer Campus, 27th of September.
- 🕒 Talk: “Uso alternativo da madeira de carvalho no envelhecimento do vinho: engajo como proposta ecológica e económica”. UTAD Summer Campus, 27th of September.
- 🕒 Talk : Valorization of winery wastes:grape (*Vitis vinífera* L.) stems as valuable candidates for food, cosmetic and pharmaceutical industries. Workshop "Electronics innovation in the wine sector", 12th of July at Quinta do Crasto.
- 🕒 Representation of UTAD in the organization and scientific coordination of the roe deer captures in the Grijó enclosure for monitoring- Capture of roe deer in the enclosure of Grijó and Vilar do Monte.
- 🕒 Course: "Exame Inicial de Caça selvagem abatida em zonas de caça". UTAD 22nd to 24th of April.
- 🕒 Course: “Exame Inicial de Caça Maior selvagem abatida em zonas de caça”. UTAD 21st to 22nd of July.
- 🕒 Course: “Exame Inicial de Caça Maior selvagem abatida em zonas de caça”. Instituto Politécnico de Beja 15th to 16thof September.
- 🕒 Pedagogic KIT: “A água dá que pensar”, developed for the National Agriculture at School Day, 16th of May, by the project “Redescobrir a terra”.
- 🕒 Event: “Dia do Alvão” pedestrian route, 9th of June during the “Dia aberto Parque Natural do Alvão”.
- 🕒 Course: "Curso de Gestão Cinegética Aplicada à Perdiz-vermelha e ao Coelho-bravo”.
- 🕒 Talk: “Monitoring climate & modelling grapevines for decision support systems”. Viticulture, Climate and Soils Forum, Regia Douro Park, Vila Real, Portugal."
- 🕒 Talk: “Climate change for precipitation in Portugal: adaptation in viticulture as a case study”. Symposium Adaption of Agriculture to Climate Change: France, Portugal and the Mediterranean Area, Instituto Superior de Agronomia and France Embassy, Lisbon, Portugal."
- 🕒 Talk: "Viticulture under a changing climate”. Inside World Heritage - Douro 2018, Climate Change and the Outstanding Universal Value: Challenges for Planning and Management, Tabuaço, Portugal."
- 🕒 Talk: "A changing Climate in Portugal: from drivers to impacts”. Second International Summer University: Geoparks, Sustainable Regional Development and Healthy Lifestyles, UNESCO and UTAD, Vila Real, Portugal."
- 🕒 Talk: "Projeções climáticas: da modelação físico-matemática à avaliação dos correspondentes impactes”. Tardes da Matemática, Sociedade Portuguesa de Matemática, Museu da Vila Velha, Vila Real, Portugal."

- ☺ Talk: "Climate change in Portugal and potential implications in agroforestry systems: overview of some case studies". Ciência 2018 – Encontro com a Ciência e Tecnologia em Portugal, FCT. Sessão: "Ação Climática", Centro de Congressos de Lisboa, Lisboa, Portugal."
- ☺ Talk: "Preparar a Região Demarcada do Douro para a alterações climáticas". Rega sem restrições: impacto na região do Douro, 1, Casa do Douro, Régua, Portugal.
- ☺ Talk: "Alterações Climáticas". Douro TGV – Turismo, Gastronomia e Vinhos, 2, Regia Douro Park, Vila Real, Portugal."
- ☺ Talk: "Climatologia aplicada ao estudo da viticultura". Jornadas do Mar e da Atmosfera, 3, Universidade de Aveiro, Aveiro, Portugal."
- ☺ Talk: "Climate change and the threats to terroir". Douro 4.0: contrastes e revoluções, Fundação Casa de Mateus & UTAD, Régia Douro Park, Vila Real, Portugal.
- ☺ Talk: "Climate change threats and adaptation in European and Portuguese viticulture". Séminaire Viticulture-Œnologie, Vranken-Pommery, Museu do Douro, Régua, Portugal."
- ☺ Talk: "Os novos desafios das alterações climáticas para os sistemas agroflorestais: discussão de alguns casos". Congresso Nacional sobre Alterações Climáticas 2018, Ordem dos Biólogos, Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal."
- ☺ Talk: "Viticulture in Portugal: climate change threats and adaptation measures". OENO One Science Meeting, Institut des Sciences de la Vigne et du Vin. Château Mouton Rothschild, Bordeaux, France.
- ☺ Interview: "UTAD tem método de datação de Oliveiras", RTP1 National TV Station, 14-10-2018. <https://www.facebook.com/watch/?v=335981287158869>
- ☺ Opinion article: ""Cientistas estão a encontrar centenas de oliveiras milenárias em Portugal"". Wilder newspaper, 11-10-2018. www.wilder.pt/historias/cientistas-estao-a-encontrar-centenas-de-oliveiras-milenarias-em-portugal/
- ☺ Opinion article: "Há duas centenas de oliveiras com mais de dois mil anos em Portugal". Público daily newspaper, 10-10-2018. <https://www.publico.pt/2018/10/10/ciencia/noticia/ha-duas-centenas-de-oliveiras-com-mais-dois-mil-anos-em-portugal-1846771>
- ☺ Opinion article: "Oliveiras com 3350 anos é a mais velha de Portugal"". Sábado daily newspaper, 10-10-2018. <https://www.sabado.pt/ciencia---saude/detalhe/oliveira-com-3350-anos-e-a-mais-velha-de-portugal>
- ☺ Opinion article: "Investigadores da UTAD dataram oliveira com 3350 anos como a mais velha de Portugal. 10-10-2018. DN daily newspaper. <https://www.dn.pt/lusa/interior/investigadores-da-utad-dataram-oliveira-com-3350-anos-como-a-mais-velha-de-portugal-9972779.HTML>
- ☺ Opinion article: "Mouriscas/Oliveira do Mouchão conta com 3350 anos e é a mais antiga de Portugal". MédioTejo.net daily newspaper, 18-10-2018.

<http://www.mediotejo.net/mouriscas-oliveira-do-mouchao-conta-3350-anos-e-e-a-mais-antiga-de-portugal/>

- 🟢 Opinion article: "Portugal tem uma oliveira com 3350 anos". Revista Sport daily newspaper, 10-10-2018.<http://www.revistaport.com/noticia/3/4664>".

2.7 PRIZES, AWARDS AND DISTINCTIONS

The work of CITAB researchers has been recognized in several occasions during 2018:

- Lia-Tânia Dinis, Sara Bernardo, Artur Conde, Helena Ferreira, Luís Félix, Hernâni Gerós, Carlos Correia and José Moutinho-Pereira were distinguished with the ADVID Prize - Prof. Dr. Pedro Amaro, with the work: "*The exogenous application of kaolin increases the antioxidant capacity and the content of phenolic compounds in extracts of leaves and fruits of vine under summer stress.*" The award ceremony took place on April 20, 2018, in Régia-Douro Park.
- Three 'Proof of concept' were awarded under the UPGRADE@UTAD programme, from UNorte Inova project. These prizes, of 14 thousand euro each, will support the practical application of results from promising research in the three approved projects: "*StemEcoWine- Alternative use of oak wood in wine aging: stems as an ecological and economic proposal*", from Ana Barros; "*Radiographic diagnosis of hip dysplasia in the dog without human exposure to ionizing radiation (DASRAD)*" and "*SAPOIM-Software for Evaluation of Orthopedic Parameters in Medical Imaging*", from researchers Mario Ginga Bruno Colaço, Sofia Alves Pimenta, João Martins and Ana Santana.
- Domingos Lopes was awarded with the Prize "Vicente Ferrer" by the municipality of Lousã in recognition of his career.
- Lia-Tânia Dinis, José Moutinho Pereira, Carlos Correia, Ana Luzio and Aureliano Malheiro won the 2017 Research Prize from Maria Rosa Foundation, of 5.000€, with the work "*Ecophysiological and molecular approach to wine mapping in the Douro Region*". Ana Barros, Irene Gouvinhas, Rafaela Santos, Marcelo Queirós and Maria José Saavedra work "*Use of grape stems as an alternative to oak wood in wines aging*" received a Honorable Mention also by the Maria Rosa Foundation.
- Isaura Castro, Vanessa Ferreira, Olinda Pinto-Carnide and Valdemar Carnide won a monetary prize of 500€ with the scientific publication "*Genetic diversity and core collection of *Malus × domestica* in northwestern Spain, Portugal and the Canary Islands by SSRs*" under the IACOBUS Programme Framework for scientific publications from the Euro-region Galícia-Northern Portugal.

- Pedro Mestre, Paulo Salgado and Carlos Serôdio were awarded with the Certificate of Merit for “The 2018 International Conference of Wireless Networks”, with their publication: *WiFi Access Point Selector Based on the Network Delay*.
- Ana Barros and Irene Gouvinhas won the Best Communication Prize in the International Conference "Agriculture & Food Chemistry" (Euroscicon 2018), held in Rome in July 2018, with oral communication “*Stability of phenolic compounds and biological properties of grape (Vitis vinifera L.) stems during long-term storage*”.
- Sara Bernardo was distinguished with the prize for Best oral communication in the "Congresso Nacional sobre Alterações Climáticas” with the work “*Physiological performance and grapevine quality during summer stress: the kaolin effect*”, by S. Bernardo, L.-T. Dinis, A. Luzio, N. Machado, A. Gonçalves, A. Barros, C. Correia, J. Moutinho-Pereira. (CNAC), 19 –21st February, UTAD, Vila Real, Portugal.
- A Honorable Mention was awarded to the oral communication “*Contribuição para o desenvolvimento de um modelo animal para estudo de cancro de pénis*”, by Medeiros-Fonseca B, Mestre VF, Neuparth MJ, Colaço B, Pires MJ, Faustino-Rocha AI, Brito HO, Brito LMO, Medeiros R, Bastos MMSM, Oliveira PA, Gil da Costa R at the “X Jornadas de Genética e Biotecnologia”, 7th to 9th March 2018, Vila Real, Portugal.
- Pedro Melo Pinto and Ana Coimbra were recognized with the “Outstanding Contribution in Reviewing” certificates by the journals “Food Chemistry”, “Science of the Total Environment”. Paula M. Oliveira received the “Publon peer Review Awards 2018” for placing in the top 1% of reviewers in Assorted topics.

2.8 INTERNATIONAL DOCTORAL PROGRAMMES

The 5th edition of the CITAB doctoral programme “AgriChains – Agricultural Production Chains: from fork to farm” was successfully launched and 8 new doctoral students, funded by FCT will begin the thesis research during the first months of 2019. AgriChains is a joint degree, conferred by the University of Trás-os-Montes and Alto Douro (UTAD) and the University of Minho (UMinho) in partnership of the University of Wageningen (WUR) and the Polytechnic University of València (UPV). AgriChains programme is aimed at training doctoral students in each step of the agricultural production chain and respond to demands and concerns of consumers and agro-industry. Thirty eight PhD students from different editions of AgriChains programme are carrying out their thesis research in different areas of agro-food chain sector. The students of the first edition completed their PhD doctoral thesis and the first, titled “Genetic diversity and molecular responses to drought stress in *Vigna unguiculata* L. Walp.” was submitted for public examination, obtaining the “Very Good” grade. As the thesis was supervised by professors from UMinho and UTAD, the student will be provided with the doctoral

Diploma from the two institutions. More PhD dissertations, both from students of the first and second editions, will be evaluated during 2019.

CITAB continues to be a cornerstone research institute in the “Do*Mar” doctoral programme. Do*Mar is an international doctoral programme in Marine Sciences, Technology and Management, offered by a consortium of Galician and Portuguese Universities (Vigo, which coordinates, La Coruña, Santiago de Compostela, UTAD, UMinho, UAveiro and UPorto), involving several CITAB researchers on the programme management and in students supervision. Two Spanish public research organizations CSIC (Higher Council for Scientific Research) and IEO (Spanish Institute of Oceanography), The St. Andrews University (Scotland), the Université Pierre et Marie Curie (France) and the Universidade de São Paulo (Brasil) are also associated members of this consortium. More than 250 students are enrolled in “Do*Mar”, which is now in its 4th edition, with 7 new students in the Portuguese universities. The Welcome Session and Opening of the 2018/2019 Academic Year of the International Program “Do*Mar” occurred in November 16th, the national day of the Sea, at UTAD.

The International PhD Programme on “Water, Sustainability and Development” was launched in the 2017/2018 academic year. Based at the specially constructed “Water Campus” in Ourense (Region of Galicia, Spain) this doctoral programme is coordinated by the University of Vigo and run in collaboration with the Junta de Galicia, Porto Polytechnic Institute and UTAD. Two of the 25 students enrolled in this doctoral programme are from UTAD.

2.9 FUNDED PROJECTS AND INDUSTRY CONTRACTS

2.9.1 INTERNATIONAL PROJECTS

CITAB researchers participated in 18 international projects over 2018.

	Project	Funding
1	Clim4Vitis - Climate change impact mitigation for European viticulture: knowledge transfer for an integrated approach. Consortium coordinator: João Santos. Starting date: August 2018, duration: 36 months (WIDESPREAD-05-2017).	€ 374.163,75
2	BRESOV - Breeding for Resilient, Efficient and Sustainable Organic Vegetable production (H2020-SFS-2017-2; GA 774244). CITAB coordinator: Eduardo Rosa. Starting date: May 2018, duration: 48 months	€ 100.000,00
3	"Dairy-4-Future - Propagating innovations for more resilient dairy farming in the Atlantic area". CITAB coordinator: Henrique Trindade. Starting date: March 2018, duration: months (INTERREG EAPA_304/2016)	€ 281.975,00
4	NASPA - Natural fungicides against air & soil borne pathogens in the Atlantic Area". CITAB coordinator: Berta Gonçalves. Starting date: January 2018, duration: 36 months (INTERREG EAPA_451/2016)	€ 274.029,64
5	Integrative conservation strategies for the critically endangered freshwater mussels in Tunisia before their dramatic extinction". CITAB coordinator: Simone Varandas. Starting date: January 2018, duration: 12 months (The Mohamed bin Zayed Species Conservation Fund)	€ 3.000,00
6	"EURODAIRY - A Europe-wide Thematic Network on improving resource use efficiency in dairy farming". CITAB/UTAD Coordinator: Henrique Trindade. Starting date: February 2016, duration: 36 months (H2020 - ISIB-2015-1 GA 696364). http://www.eurodairy.eu	€ 36.865,00
7	ECO-GATE: European COrridors for natural GAs Transport Efficiency. CITAB Coordinator: Amadeu Borges. Starting date: February 2017. Duration: 23 months (2016-EU-TM-0126-S) e Grant agreement N° INEA/CEF/TRAN/M2016/1359344 (European Union Structural Funds).	€ 411.000,00
8	"TurboSudoe - Development, validation and demonstration of a model based on a network of 'TRansference BrOkers' for a direct technology transference between R&D centres and companies in the SUDOIE territory". CITAB coordinator: Eduardo Rosa. Starting date: July 2016, duration: 36 months (INTERREG SOE1/P1/E0136) https://www.turbo-sudoe.eu/	€ 150.358,92

	Project	Funding
9	“ALICE - Improving the management of Atlantic Landscapes: accounting for biodiversity and eCcosystem sErVICES”. CITAB coordinator: Samantha Hughes. Starting date: November 2017, duration: 36 months (INTERREG)	€ 264.483,38
10	“IBERPHENOL- Research cooperation network in polyphenols and its industrial applications”. CITAB coordinator: Eduardo Rosa. Starting date: October 2015, duration: 51 months (INTERREG 0377_Iberphenol_6_E)	€ 181.888,00
11	“UNI+i - Transboundary Cooperation Northern of Portugal- Castilla and León for the promotion of innovative entrepreneurship and business competitiveness”. Consortium coordinator: Helena Moreira. Starting date: May 2017, duration: 20 months (INTERREG)	€ 126.375,00
12	“Atlantic-Geoparks - Transnational Promotion and Cooperation of the Atlantic Geoparks for sustainable development”. CITAB coordinator: Ronaldo Gabriel. Starting date: June 2017, duration: 30 months (INTERREG ref - EAPA_250/2016)	€ 207.037,50
13	“FLUMEN DURIUS - Promotion and valorization of the tourist resources of Douro river”. CITAB coordinator: Helena Moreira. Starting date: May 2017, duration: 20 months (INTERREG 0067_Flumen_Durius_2_E)	€ 140.062,50
14	RES2VALHUM - Organic Residues Valorization: Production of Humic Substances. CITAB coordinator: Rui Oliveira. Starting date: October 2015, duration: 48 months. Promotor: UMinho (0366_RES2VALHUM_1_P – INTERREG VA – POCTEP)	€ 65.484,28
15	“ECOMAR – Valuation and Monitoring of Marine and Coastal Ecosystem Services in Iberoamerican countries”. CITAB participant: Edna Cabecinha. Starting date: January 2017, duration: 46 months (CYTED). https://futureoceanslab.org/ecomar/	N/A
16	“PAIRED - Magnetically and photochemically actuated bioactive nanowires for remotely controlled drug delivery”. CITAB participant: Amélia Silva. Starting date: October 2016, duration: 36 months (ERA-NET/0004/2015)	N/A
17	INTEGRAPE – Data integration to maximise the power of omics for grapevine improvement. CITAB coordinator: Hernâni Gerós. Starting date: November 2018. Duration: 36 months (COST OC-2017-1-22194)	N/A
18	“Temperatures, ash and soil hydrology: predicting fire impact from plant traits - Ko-Tsah-To”. CITAB coordinator: Paulo Fernandes. Starting date: September 2016, duration: 24 months (H2020-MSCA-IF-2015)	N/A

2.9.2 NATIONAL PROJECTS

CITAB researchers participated in or coordinated 46 national projects over 2018.

	Project	Funding
1	FungiTech -Technology and innovation in the production chain of shiitake and other mushrooms with nutraceutical value and medicine (CO-promoção). CITAB Coordinator: Guilhermina Marques. Starting date: July 2018. Duration: 36 months (NORTE-01-0247-FEDER-033788)	€ 233.488,77
2	MitiVineDrought - Combining "omics" with molecular, biochemical and physiological analyses as an integrated effort to validate novel and easy-to-implement drought mitigation strategies in grapevine while reducing water use. Consortium coordinator: Artur Conde. Starting date: October 2018. Duration: 36 months (POCI-01-0145-FEDER-030341) - FCT	€ 197.476,60€
3	Transcriptome and metabolome reprogramming in Vitis vinifera cv. Aragonês and Vitis rupestris berries upon infection with Erysiphe necator. CITAB coordinator: Hernâni Gerós. Starting date: October 2018. Duration: 36 months (POCI-01-0145-FEDER)	€ 71.171,94
4	BerryPlastid - “Biosynthesis of secondary compounds in the grape berry: unlocking the role of the plastid”. CITAB coordinator: Hernâni Gerós. Starting date: October 2018. Duration: 36 months (POCI-01-0145-FEDER-028165)	€ 191.726,43
5	EOIS-CropProt - Essential oils, infusions, and silicon in crop protection. A study using tomato plants, as a model, to disclose the biopesticides induced defense mechanisms of plants, through an omics approach. Consortium coordinator: Manuel Ferreira. Starting date: August 2018. Duration: 36 months (POCI-01-0145-FEDER-031131)	
6	Conservation and Selection of Old Vine Varieties. CITAB Coordinator: Ana Maria Nazaré Pereira. Starting date: September 2018. Duration: 48 months (PDR2020-784-042704). Promotor: ISA	€ 42.000,00€
7	ZEBREFINE: Optimization of anesthesia in zebrafish: economic, clinical and animal welfare implications. CITAB coordinator: Luis Antunes. Starting date: July 2018. Duration: 36 months (POCI-01-0145-FEDER-029542) - FCT	€ 63.600,00
8	BoFraPla: Development of an innovative composite system for stabilization of comminuted bone fractures. CITAB coordinator: José Morais. Starting date: July 2018. Duration: 36 months (POCI-01-0145-FEDER-028225) - FCT	€ 6.781,25
9	Safe NPest: Synthesis and Environmental Safety of Nanopesticides. CITAB coordinator: Tatiana Andreani / Amélia Silva. Starting date: July 2018. Duration: 36 months (POCI-01-0145-FEDER-029343) - FCT	€ 67.175,00

	Project	Funding
10	ResinPro: How to increase resin production in <i>Pinus pinaster</i> more sustainably. CITAB coordinator: José Lousada. Starting date: July 2018. Duration: 36 months (POCI-01-0145-FEDER-031231) - FCT	€ 12.689,25
11	VALORIZEBYPRODUCTS: Preclinical efficacy of sulforaphane or Brassica whole extract: a strategy to fight obesity and valorize Brassica byproduct. Consortium coordinator: Eduardo Rosa. Starting date: June 2018. Duration: 36 months (POCI-01-0145-FEDER-029152) - FCT	€ 194.423,90
12	TO CHAIR: The Optimal Challenges in Irrigation. CITAB coordinator: Aureliano Malheiro. Starting date: June 2018. Duration: 36 months (POCI-01-0145-FEDER-028247) - FCT	€ 32.537,50
13	ConBiomics: Approach for the Conservation of Freshwater Bivalves. CITAB coordinator: Simone Varandas. Starting date: January 2018, duration: 36 months (POCI-01-0145-FEDER-030286) - FCT	€ 6.250,00
14	"GO +PrevCRP - Development of integrated strategies for the prevention of pine pitch canker". CITAB coordinator: Luís Martins. Starting date: April 2017, duration: 48 months (Grupo Operacional)	€62.506,27
15	"GO BioPest - Integrated strategies to fight against key pests in nut species". CITAB coordinator: Luís Martins. Starting date: April 2017, duration: 45 months (Grupo Operacional)	€30.226,65
16	"GO Preserve the quality of Arouquesa meat". CITAB coordinator: Carlos Venâncio. Starting date: April 2017, duration: 48 months (Grupo Operacional)	€227.178,66
17	"GO Efluentes - Livestock effluents: strategic approach towards agronomic and energetic valorization of flows in the farming activity.". CITAB coordinator: Henrique Trindade. Starting date: June 2017, duration: 48 months (Grupo Operacional)	€48.725,73
18	"GO VITISHIDRI – Strategies for the management of water stress of the Douro Superior vineyards". CITAB coordinator: Aureliano Malheiro. Starting date: March 2017, duration: 48 months (Grupo Operacional)	€100.603,83
19	"GO Control and minimization of damages caused by invasive species <i>Vespa velutina nigrithorax</i> (<i>Vespa velutina</i>) in beekeeping". CITAB coordinator: José Aranha. Starting date: May 2017, duration: 48 months (Grupo Operacional)	€98.021,09

	Project	Funding
20	"GO New management practices in rainfed olive orchards - strategies for mitigation and adaptation to climate change". CITAB coordinator: Carlos Correia. Starting date: January 2017, duration: 48 months (Grupo Operacional)	€103.513,41
21	"GO ClimCast - The new challenges for the chestnut orchards in the context of climate change". CITAB coordinator: Mário Pereira. Starting date: September 2017, duration: 43 months (Grupo Operacional)	€74.650,85
22	"GO Valorization of the Resende cherry production and market positioning of the chain". CITAB coordinator: Berta Gonçalves. Starting date: March 2017, duration: 43 months (Grupo Operacional)	€166.850,59
23	"GO SustentOlive - Improvement of irrigation and fertilization practices at olive farms in Trás-os-Montes for its sustainability". CITAB coordinator: Anabela Silva. Starting date: April 2017, duration: 48 months (Grupo Operacional)	€193.496,98
24	GO ValorCast - Chestnut valorisation and optimization of its commercialization. CITAB Coordinator: Jorge Ventura. Starting date: September 2017. Duration: 48 months (PDR2020-101-032036). Promotor: RefCast	€ 67.250,00
25	GO EGIS: Strategies for integrated soil and water management in nut species. CITAB coordinator: Carlos Correia. Starting date: April 2017. Duration: 45 month. Promotor: UTAD (PDR2020-101-030994)	€ 47.857,95
26	GO Phytosanitary protection strategies for sustainable apple production. CITAB coordinator: Maria Isabel Cortez. Starting date: January 2018. Duration: 48 months. Promotor: UTAD (PDR2020-101-031962)	€ 48.454,77
27	GO CSinDouro - Sexual Confusion against grape moth, Lobesia botrana (Denn. & Schiff.) in mountain viticulture: the particular case of the Douro Demarcated Region (RDD). CITAB coordinator: Laura Torres. Starting date: October 2017, duration: 39 months. Promotor: ADVID	€ 118.377,23
28	GO BioChestnut- IPM - Implement effective control strategies against the chestnut and almond diseases. CITAB coordinator: Luís Martins. Starting date: April 2017. Duration: 42 month. Promotor: CENTRO NACIONAL DE COMPETÊNCIAS DOS FRUTOS SECOS - ASSOCIAÇÃO CNCFS (PDR2020-101-030947)	€ 50.000,00
29	TERR@ENO – Terroir and agro-ecological zoning as a critical factor for the competitiveness and innovation of Vinhos Verdes. CITAB coordinator: Maria Isabel Cortez. Starting date: April 2017, duration: 24 months. Promotor: UTAD. Partners: Adega Cooperativa de Ponte de Lima Crl, Adega Cooperativa	€ 120.076,54

	Project	Funding
	Regional de Monção Crl; Instituto Politécnico de Viana do Castelo] (NORTE – 02-0853-FEDER-000113)	
30	MilkEE partnership. CITAB coordinator: Henrique Trindade. Starting date: 2017-07-01, duration: 12 months Qualificação PDR	€ 27.824,45
31	“INTERACT - Integrative Research in Environment, Agro-Chains and Technology”. CITAB coordinator: Rui Cortes. Starting date: May 2016, duration: 36 months (ON.2 – NORTE-01-0145-FEDER-000017)	€3.508.607,48
32	“TEAMING - Promoting Agri-food and Forestry Stakeholder Engagement for Knowledge Transfer and SMARTAgriFor partnerships”. Consortium coordinator: Eduardo Rosa. Starting date: June 2016, duration: 23 months (ON.2 – NORTE- 01-0246-FEDER-000023)	€235.714,00
33	“INNOVINE&WINE – Vineyard and Wine Innovation Platform”. CITAB coordinators: João Santos & Aureliano Malheiro. Starting date: April 2016, duration: 36 months. (NORTE-01-0145-FEDER-000038)	€1.124.971,76
34	“RUNaway - Running away from prostate cancer: Walking through the molecular basis of physical activity”. Project coordinator: Paula A. Oliveira. Starting date: July 2016, duration: 36 months (PTDC/DTP-DES/6077/2014)	€85.968,00
35	“LEGSeedCOAT - Legume seed coating with beneficial microorganisms for increased productivity and resilience under climate change conditions”. CITAB coordinator: Guilhermina Marques. Starting date: July 2016, duration: 36 months (PTDC/AGR-TEC/1140/2014)	€82.800,00
36	“BONFIRE – gloBal-scale analysis and mOdelliNg of FIRE behaviour potential”. Project coordinator: Paulo Fernandes. Starting date: July 2016, duration: 30 months (PTDC/AAG-MAA/2656/2014)	€68.859,00
37	“Cherry cracking & mitigation strategies: towards their understanding using a functional metabolomic approach”. Project coordinator: Berta Gonçalves. Starting date: June 2016, duration: 36 months (PTDC/AGR-PRO/7028/2014)	€164.002,00
38	“FIREXTR - Prevent and prepare society for extreme fire events: the challenge of seeing the forest and not just the trees”. CITAB coordinator: Mário Gonzalez Pereira. Starting date: May 2016, duration: 36 months (PTDC/ATP-GEO/0462/2014)	€54.960,00

	Project	Funding
39	“SOLAR - Earth System Modelling of the Eastern Atlantic Region”. CITAB coordinator: João Santos. Starting date: September 2016, duration: 36 months (PTDC/GEO-MET/7078/2014)	3.120,00€
40	“SPLICETHER - Application of splicing approaches to exploit alternative therapies for Lysosomal Storage Diseases: in vitro and in vivo studies”. CITAB coordinator: Paula A. Oliveira. Starting date: May 2016, duration: 36 months. (PTDC/BBB-BMD/6301/2014)	€14.400,00
41	“FRESHCO - Multiple implications of invasive species on Freshwater Mussel coextinction processes.” CITAB coordinator: Simone Varandas. Starting date: April 2016, duration: 36 months (PTDC/AGR-FOR/1627/2014)	€19.500,00€
42	“ALIEN - An integrated approach to unravel Lasiodiplodia-grapevine Interaction”. CITAB coordinator: J. Moutinho Pereira. Starting date: June 2016, duration: 36 months. (PTDC/AGR-PRO/2183/2014)	€16.920,00
43	“AMONIAVE - Techniques for reducing ammonia concentrations in poultry houses”. CITAB coordinator: Henrique Trindade. Starting date: March 2016, duration: 32 months. (08/SI/2015). Promotor: Lusiaves	€157.714,12
44	“DEUS EX MACHINA - Symbiotic technology for societal efficiency gains”. CITAB Coordinator: Pedro Melo Pinto. Starting Date: January 2016. Duration: 36 months (NORTE-01-0145-FEDER-000026)	€146.340,00
45	PARRA – “Plataforma integrAda de monitoRização e avaliação da doença da flavesencia douRada na vinhA”. CITAB Coordinator: Irene Oliveira. Starting Date: April 2016. Duration: 36 months. Promotor: Tekever ASDS, Lda. (LISBOA-01-0247-FEDER-003447)	€25.000
46	“Common Forest - Promotion of native forests for products and ecosystem services”. CITAB Coordinator: João Paulo Carvalho. Starting Date: January 2016. Duration: 48 months	N/A

2.9.3 INDUSTRY CONTRACT RESEARCH

During 2018, CITAB provided expert consultation in 12 major research contracts with public and private clients.

	Designation	Contractor	Value
1	Aproveitamento Hidroeléctrico do Baixo Sabor (AHBS) – Programa Integrado de Monitorização Ambiental (PIMA), Fase de Exploração (75/17/DST)	EDP – Gestão da Produção de Energia, S.A.	€1.127.655,24

	Designation	Contractor	Value
2	Aproveitamento Hidroeléctrico da Foz do Tua (AHFT) – Programa Integrado de Monitorização Ambiental (PIMA), Fase de Exploração (86/17/DST)	EDP – Gestão da Produção de Energia, S.A.	€320.688,89
3	Monitorização da atividade e prospeção da mortalidade de quirópteros e de avifauna no Parque Eólico de Gevancas II	Parque Eólico de Gevancas	€13.634,00
4	Trabalhos de monitorização de avifauna e quirópteros no sobreequipamento do parque eólico de D. João e Feirão na fase prévia à construção	Empreendimentos Eólicos do Douro, SA.	€11.176,13
5	Trabalhos de monitorização de avifauna e quirópteros no sobreequipamento do parque eólico do Vale da Azinheira na fase prévia à construção.	Parque Eólico do Vale do Abade	€10.819,88
6	Trabalhos de monitorização de avifauna e quirópteros no sobreequipamento do parque eólico de Alto do Marco na fase prévia à construção	Parque Eólico de Gevancas	€8.421,38
7	AGUIAR CIV - Protocolo de Cooperação estabelecido entre a UTAD, a Câmara de Aguiar da Beira, a União de Freguesias de Aguiar da Beira e Coruche e a ARVOFRITI-Produção de Árvores e Fruta Lda., para Instalação do Centro de Interpretação Vivo do Castanheiro e da Castanha de Aguiar da Beira	City Hall of Aguiar da Beira	€ 40.269,40
8	TranCast - Protocolo de Cooperação entre a UTAD e a Câmara Municipal Trancoso visando a promoção e o reforço da cultura do castanheiro no concelho de Trancoso	City Hall of Trancoso	€ 43.184,73
9	Monitorização do estado das massas de água rios e albufeiras no âmbito da Diretiva Quadro da Água	Agência Portuguesa de Ambiente	€ 125.483,61 €
10	Elaboração de planos de gestão de habitats naturais, da fauna e da flora selvagens, que incidem sobre Sítios de Importância Comunitária (SIC) no âmbito da diretiva habitats.	Agência Portuguesa de Ambiente	€ 42.200
11	Reduce the impact of water abstraction and unsustainable water infrastructure on river basins biodiversity and functioning.	MAVA: Fondation pour la Natur	€ 99.348,00 €

	Designation	Contractor	Value
12	Elaboration of twenty plans for the management of natural habitats, wild fauna and flora for protected areas (SIC) - Terrestrial and Inland Aquatic Vertebrates	Floradata	€ 42.780,00

3. PRODUCTIVITY METRICS

A total of 233 publications were published by CITAB researchers within the Thematic Strands of *Sustainability of Agri-food and Forestry Ecosystems in a changing environment and Technology & innovation in Agri-food and Forestry chains for a more competitive bioeconomy* in 2018.

3.1 PEER REVIEWED PAPERS IN JCR JOURNALS

- [1]. Aires, A., Morais, M.C., Barreales, D., Rodrigues, M.A., Ribeiro, A.C., Berta Gonçalves, B., Silva, A.P. (2018). Variation of almond yield, biometry, α -tocopherol levels, and antioxidant properties with nitrogen fertilization. *Journal Food Biochemistry* 2018;e12685 doi: 10.1111/jfbc.12685 URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/jfbc.12685> (Impact factor, Quartile: 1.552; Q3)
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3.7 THESIS

3.7.1 MSc THESIS

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- [11]. Freitas, T.R.M. (2018). Caracterização química, tratamento e reutilização de efluentes vinícolas para rega. Master in Environmental Engineering. Supervisors: Eunice Bacelar (CITAB-UTAD) and José A. Peres (UTAD).
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3.7.2 PHD THESIS

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- [2]. Carvalho, Márcia R. G. (2018). Genetic diversity and molecular responses to drought stress in *Vigna unguiculata* L. Walp. PhD in Agricultural Production Chains - From Fork to Farm (Agrichains). Supervisors: Valdemar Pedrosa Carnide (CITAB-UTAD) and Teresa Lino-Neto (UMinho).
- [3]. Dias, Carla S. P. (2018). Antimicrobial resistance, biofilm formation and cell invasion by bacteria isolated from wild animals: potential impact in animal and human health. PhD in Chemical and Biological Sciences. Supervisors: Maria José Saavedra (CITAB-UTAD) and Manuel Simões.
- [4]. Ferreira, Vanessa C. M. (2018). Grape Berry Color Variation: Genomic and Metabolomic Analysis. PhD in Comparative Molecular Genetics. Supervisors: Olinda Carnide and Isaura Castro (CITAB-UTAD) and Rosa Arroyo-García (CBGP-UPM-INIA).

- [5]. Martins, João M. C. (2018). Analysis of the influence of animal positioning on the radiographic study of the coxofemoral joint. PhD in Veterinary Sciences. Supervisors: Mário Ginja (CITAB-UTAD), António Ferreira and Bruno Colaço (CITAB-UTAD).
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3.8 TECHNICAL REPORTS

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3.9 PATENTS

Four patents, submitted by CITAB researchers in 2016, are still under analysis:

- [1]. Borges, A. Production method of granulated fuel. Provisional national patent request N.º 109123 from 2016/02/01.
- [2]. Fidalgo Carvalho, J.P. 'Tree seeding with a gun type method'. Provisional national patent request N.º 109289 from 2016/04/04.
- [3]. - [4]. Bezerra, R., Dias, J.A. Method for determination of enzymatic inhibition kinetics in the simultaneous presence of two inhibitors one of them being a product of the reaction. Provisional national patent request N.º 108706 de 2016/07/15 and Provisional international patent request N.º PCT/IB2016/054324 from 2016/07/20.

Summary table of publications in 2018

Publications	Number
PEER REVIEWED PAPERS IN JCR JOURNALS	182
PAPERS IN PEER REVIEWED INTERNATIONAL JOURNALS	24
PAPERS IN NATIONAL JOURNALS	2
BOOKS	5
BOOKS CHAPTERS	22
COMMUNICATIONS IN INTERNATIONAL AND NATIONAL EVENTS	280
THESIS	38
TECHNICAL REPORTS	9
Total	562

Quartile of the publications in JCR Journals

Quartile JCR	Number	%
Q1	102	55
Q2	51	28
Q3	18	10
Q4	13	7
Total	182	100