

CECAV Annual Report

2014



CECAV

ANIMAL AND VETERINARY
RESEARCH CENTRE

Pest-0E/AGR/UI00772/2014

FCT

Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

CECAV Scientific report for 2014

Executive summary

PEst-OE/AGR/UI0772/2014 issued from an extension of the previous established strategic plan for CECAV. Therefore, in the transition towards the newly adopted framework proposed for the period 2015-2020, a major goal was to strengthen the research team, fostering the interaction among the researchers within CECAV groups and also with teams external to the unit, as well as to attract new young researchers (PhD students and post-doc). Overall the publication indices in international journals and in books improved in 2014, as planned.

The Centre also focused on the interaction with external partners in the industry and through international collaborations, which may facilitate its integration in wider National and International Research networks. The number of meetings with putative stakeholders also increased, in an attempt to increase the collaboration with this unit, and to establish new partnerships. Some new cooperation protocols have already been signed. Additionally, through the Rectorate of UTAD, CECAV participates in two GALs (Grupos de Acção Local), aiming to better address the regional identified concerns to development and research programs. As consequence collaborative research was reinforced in 2014, which was achieved by the establishment of international partnerships as well as by a closer collaboration with national stakeholders. A significant number of the publications were done in straight cooperation with scientists from renowned research Centres. Besides, the Centre accepted several external graduation students and students from secondary schools, involving them in global research experience. CECAV has also fostered the research activities of foreign students, for a 6-month period, which were integrated in ongoing research in different scientific areas. The training included laboratory experience learning state-of-the-art methodology in molecular and biochemistry methods and also biostatistics. Moreover, CECAV supports the PhD programmes in Animal Science and in Veterinary Sciences, sanctioned by the National Agency for the Evaluation and Accreditation of University Degrees. Also, four new PhD grants and one new post-doctoral fellowship were granted to CECAV collaborators or members. According to the previewed, several new equipped facilities were assigned to CECAV, in diverse areas, for research. This will allow CECAV to expand its research capacity and address new topics within the thematics proposed in its strategic plan for the period from 2015 to 2020. During 2014, several PhD theses were submitted, although only two were publically discussed; also, 57 Master Thesis were complete by students whose research activities were supported by CECAV.

Beyond the already mentioned scientific outputs (publications) CECAV also participated in several scientific and technical training events and it-self organized two main seminars: one on "Reference management software – the Endnote" and another titled "Workshop in Veterinary Pathology". The later reunited the majority of the Portuguese veterinary pathologists to standardize several parameters and criteria for the description of lesions and the language to be used in the pathology reports, as well as to address specific concerns related to the inter-and intra-professional interactions. This workshop also integrated a short technical training program designed to enhance the skills related to collection of biomaterial for histopathological analysis directed to young professionals and to technicians from the Breeders Associations in the North. In collaboration with

UTAD students Associations, practical courses (hands-on, or workshop types) have been organised to allow the practical training of external graduation students and professionals on new technologies or hot-topics.

To promote public awareness of science in the general community and to introduce high school students into the research ambience, several events were organized within the program “Ciência Viva” (Portuguese Agency for Public Awareness of Science). The main areas covered by these actions included cell membrane biochemistry, cancer research, animal diseases and food safety. Also, outreach activities targeting the general population also included the organization of small seminars in public schools within Vila Real urban area, making a bridge between science and the pre-graduation syllabus.

The collaboration of CECAV with other research units at UTAD or aboard was maintained and strengthened, for which greatly contributed the collaborative ongoing joint projects, such as the FP7-KBBE-2013-7-single-stage “EUROLEGUME”, and the participation of members of CECAV in the European Federation of Animal Science (EAAP) and diverse other national scientific organizations and the national group for the control of the microbial antibioresistance (PANRUAA).

In summary, with some minor constraints, the large majority of the proposed objectives have been achieved.

Mission

The Veterinary and Animal Research Centre (is hosted by the University of Trás-os-Montes and Alto Douro (Vila Real) and conducts basic and applied research in veterinary and animal science aiming to generate new knowledge in animal health and production. The research emphasizes the achievement of high levels of efficiency in livestock production without compromising animal health and welfare, product quality and safety and the surrounding environment. Additionally, CECAV develops research in small animal models for cancer behavior and fertility. Increasing attention is also being given to wildlife management. These aims will be achieved through scientific projects that integrate the disciplinary knowledge of its members and that of researchers from other national and international Centres working in cooperation with CECAV so that high quality scientific work can be developed.

The knowledge obtained will be diffused through international peer reviewed journals, conferences, seminars and other scientific activities. It will be also used for counseling of authorities, private companies and animal producers. The expertise of our scientists is mainly applied in graduated and post-graduated education in animal and veterinary sciences and in quality and safety of animal food products.

Organization

In past years CECAV endured on its policies for becoming an integrated member. Inclusion criteria for integrated member of CECAV are based on the individual scientific productivity in the former three years. In parallel with the changes in the Research team, new standards were imposed during 2014 to individual scientific execution: 3 papers in international scientific journals or books every two years, with at least one as 1st, last or corresponding authors. Moreover, the centers encourage

publication in journals placed in the first and second top quartils on the Web of Science - Thomson Reuters list. This, together with the increased cohesion of its main areas of research, a small reduction in team size was registered. CECAV has now consolidated its position as a small-sized Research Unit with the potential for, in a few years, growing into a stable and strong medium sized unit. In 2014, CECAV entailed 36 Integrated Members (34 eligible ETIs) and 58 Colaborators.

According to its administrative organization, CECAV is structured in a Directive Board (DB), which is constituted by a Director, one Deputy Director and three Vice-Directors, and a Scientific Council (SC) including all integrated research members. The SC elects the DB for a three-year period.

According to FCT's regulation for the multi-year funding program for R&D Units, CECAV is counselled by a Scientific Advisory Committee (SAC) that incorporates nowadays two renowned personalities external to CECAV and to UTAD: Professor J. Edwards from the University of Texas and Professor P Robinson from the University of Davis-California. This Committee is responsible for the analysis of the unit's performance.

Researchers in CECAV are organized in three main multidisciplinary groups:

Animal Production – which directs its research activities towards the area of sustainable animal production systems with impact in the agroecosystems and its biodiversity, acting in the field of breeding and management, in animal nutrition in intensive and extensive production systems and in animal behaviour and wellbeing, and also in methods for predicting body composition.

Clinical Sciences and Pathology – that integrates a group of multidisciplinary researchers covering a wide range of topics under the common field of animal diseases, while coping with the objectives traced in the societal challenges under H2020 program. The mission for this Group is mainly to understand how to better improve livestock and companion-animals health, as well as to identify the major causes for disease and predisposing factors, to gain a better understanding of the physiopathological process, which would allow to expand the diagnostic capacity and disease treatments, but also contribute to enhance food security acting at pre-harvesting.

Food Quality, Safety and Public Health - which aims to reinforce the research that has been done during the last years. The group is making an effort to strengthen internal synergies, as to increase the number of young researchers. However, this transition process must be gradual, and several on-going studies will still be considered.

The main research objectives of the Food Quality/Safety and Public Health group are to develop research in the area of zoonoses with impact in public health, and in food-borne pathogens through the food chain, along with the development of strategies to guarantee the safety of foods, including the accomplishment of sensory, technological and commercial traits.

The research activity of CECAV is mostly conducted at UTAD facilities. Besides using different laboratories of the Animal Production and Veterinary Sciences Departments (histology and histopathology, animal cell culture, clinical pathology, microbiology and parasitology, animal nutrition, animal physiology, meat hygiene and technology), research is also developed in animal facilities prepared for nutrition and production studies, animal surgery rooms, controlled environment rooms for farm animals and an experimental abattoir. In 2014, several new facilities have been attributed to CECAV. Furthermore, biochemistry, instrumental and phytochemical laboratories of the Chemistry, Biology and Environmental Sciences, or the Agronomy Departments may also be used by CECAV researchers. Occasionally, part of the research activity is developed outside the UTAD, in national and international Centres, enhancing the cooperation and the

establishment of network research. Recently, the access to new interdisciplinary laboratorial facilities has been granted to CECAV and they will be fully operational in 2014.

General Objectives

In the strategic plan for 2014, CECAV proposed to complement the submitted plans in previous years (PEst-OE/AGR/UI0772/2011 strategic plan), since PEst-OE/AGR/UI0772/2014 appears as their extension. The Centre pursued the creation of stronger and multidisciplinary teams, to maintain an integrated and coherent research strategy, directed to the regional and national strategic objectives. The competitiveness of the Centre targeted an increased in: 1 / the publication in refereed international journals with high impact factor in the field, 2 / the increase in outreach activities with stakeholders in order to increase the practical applicability of the results generated by research; 3 / to develop activity in specific areas of interest of its partners. Following the recommendations of the European Commission in relation to Agriculture and Food, CECAV directed its efforts to disseminate scientific and technological knowledge in four main areas covering the objectives proposed by the Centre. From a general perspective, these objectives included: 1 / sustainable animal production systems; 2 / alternative food additives; 3 / animal health; 4 / area of antibioresistance; 5 / promotion of animal origin products (milk, meat, eggs and fish and their derivatives) of guaranteed quality and safety.

The publication criteria established for the period of 2014-2015 led to some changes in the research groups placing CECAV in the area of small research units. It also allowed to consolidate the critical mass of the Centre taking into consideration that the majority of integrated members are teachers. Additionally, an effort was made to maintain and strength the international collaborations through projects and various Interest Groups, placing CECAV in different networks. The policy approach to the private sector segment remained one major priority of the Centre as a way to increase financial support to CECAV and promote the dissemination of knowledge with direct relevance to the socio-economic business environment. In 2014 CECAV entered the Skan platform and our services were integrated in Skan´ portfolio, in an effort to broaden the Center influences. In addition, the Centre was strongly committed in supporting PhD courses (3rd cycle) in the areas of Animal Science and Veterinary Science.

Overall scientific execution was been steadily increasing in past years, as shown in the corresponding section within this report

Main Achievements

Below are listed a number of key achievements reached by CECAV in 2014:

- Increase in the number of delivered scientific output (publications);
- Increase in the number of scientific and technical events organised and or fostered by collaboration;
- The tenure of several new equipped research facilities;
- Increase in the ability to attract foreign students integrated into the research activities of the centre;

- Higher capacity to entice granted fellowships;
- Increase in the number of partnerships with external research units;
- The strengthening of the relationship with diverse stakeholders;
- The promotion of training actions targeting the practical skills empowerment of stakeholders technical staff;
- Increase the support to pre-university academic community, by outreaching activities in schools and to the general public;

In general, the Centre consolidated its activities, enhanced the research capacities and further developed partnerships.

Scientific execution within CECAV

Projects

RTA2010-00136-00-00. Conducta de pastoreo y respuestas productivas del vacuno y equino cuando son manejados en brezales con diferente disponibilidad de superficie de pradera, e impacto en la flora y fauna; Funding Institution: Instituto Nacional de Investigación y Tecnología Agrária y Alimentaria (INIA – Spain); Total funding 121.200,00 € (Main Contractor: Servicio Regional de Investigación y Desarrollo Agroalimentario, Spain). Funding for CECAV/UTAD: 00.000,00 €; Period: 2011-2014

BGCT/PRODER/Projeto23958/UTAD/2013. “Melhoria da Qualidade da Alimentação do Cavalo Lusitano”, PA 23958, Financed by FEADER and PRODER programs; Project promoter: Coudelaria Henrique Abecassis; Main contractor Faculdade de Medicina Veterinária, Universidade Técnica de Lisboa (FMV/UTL); Total funding: 555.462,81 €; Funding for CECAV/UTAD: 00.000,00 €; 2011- 2014.

RTA11-00122-00-00. Producción de carne de buey joven de razas asturianas integrando la gestión sostenible de prados de valle y pastos naturales de montaña; Funding Institution: Instituto Nacional de Investigación y Tecnología Agrária y Alimentaria (INIA – Spain); Total funding 120.292,00 € (Main Contractor: Servicio Regional de Investigación y Desarrollo Agroalimentario, Spain). Funding for CECAV/UTAD: 00.000,00 €; Period: 2012 to 2014.

PTDC/DES/114122/2009. Biochemical, morphological and functional evaluation of breast cancer-induced muscle wasting: the role of exercise training. Total funding 142,700.00 € (Main Contractor: Unidade de Química Orgânica, Produtos Naturais e Agroalimentares-UA); Funding for CECAV/UTAD 55.800,00 €; from 2011-2014.

NORTE-01-0162-FEDER-000043. PromoAgro - Promoção da Competitividade Agro-alimentar. Financed by CCDRN - ON.2 and FEDER. Main contractor: Prof. Eduardo Rosa for CITAB-UTAD). Total funding for UTAD: 1.742.028,88 €.

PTDC/AAC-AMB/114123/2009 - GENOPES - Mecanismos de dano no ADN induzido por pesticidas em peixes e interferência da co-exposição a outros poluentes" Mário Guilherme Garcês Pacheco Inv. Responsável (Universidade de Aveiro). Total funding for UTAD: 10.800,00 €; from 2010-2014.

Cost FAIM FA1102. Optimizing and standardizing non-destructive imaging and spectroscopic methods to improve the determination of body composition and meat quality in farm animals; Main contractor: Scottish Agriculture College; from: 2011-2014

Escolher Ciência – PEC250.2013 “As plantas medicinais são sempre saudáveis? A mosca da fruta responde! [Medicinal plants are always healthy? The fruit fly gives the answer!]” Entidade Parceira - Colégio de S. Gonçalo – Amarante. Responsável: Isabel O’Neill de Mascarenhas Gaivão Total funding for UTAD: 2.256,75€; from: 2013-2014

Contracts with the industry

Possible Pathways of Cox-2 Action in Canine Melanomas, Mastocytomas and Mammary Tumours. Financed by Merial Europa. CECAV Funding; 30.000,00 €. From 2012 to May 2014

Books & Book chapters

In English

1. Borges, P., Mir, F., Fontbonne, A. & Payan-Carreira, R. (2014). Subcellular Distribution of Heat Shock Protein 70 (HSP70) in Frozen and Chilled Semen is Related with Dog Sperm Quality. In: Erickson, B.T. (Ed), *Spermatozoa: Biology, Motility and Function and Chromosomal Abnormalities*. Nova Science Publishers Inc. ISBN: 978-1-63117-020-1
2. Carvalho, M. I., Raposo T., Rodrigues, H., Pires, I., Prada, J., & Queiroga, F.L. (2014). Neoplastic disease of canine mammary glands. In E. Rucker (Ed.), *Mammary Glands, Anatomy, Development and Diseases* (pp.113-140). New York, USA: Nova Publishers. ISBN: 978-1-62948-853-0
3. Coelho, C., Vieira-Pinto, M., Mesquita, J. R., & Lopes, A. P. (2014). Seroprevalence of antibodies to *Toxoplasma gondii* in wild boar from Portugal. In: P. Paulsen, A. Bauer, F.J.M. Smulders (Eds.). *Trends in game meat hygiene: From forest to fork* (pp. 189–194). Wageningen, Netherlands: Academic Publishers. ISBN: 978-90-8686-238-2
4. Coelho, C., Vinhas, B., Pires, I., Gomes, J., Vieira-Pinto, M. (2014). Detection of *Sarcocystis* spp. in large game from Portugal by histological examination. In P. Paulsen, A. Bauer, F. Smulders (Eds), *Trends in game meat hygiene: From forest to fork*. Netherlands, Wageningen: Academic Publishers. ISBN: 978-90-8686-238-2
5. Gaivão, I., Rodríguez, R., & Sierra, L. M. (2014). Use of the Comet assay to study DNA repair in *Drosophila melanogaster* In Sierra L. M & Gaivão I. (Eds.), *Genotoxicity and DNA repair*. A

- practical approach* (pp. 397-412). New York: Humana press; Methods in molecular biology, Series: Methods in Pharmacology and Toxicology, DOI 10.1007/978-1-4939-1068-7_22
7. Marcos, R., Sierra L. M., & Gaivão, I. (2014). The SMART assays of Drosophila: wings and eyes as target tissues. In Sierra L. M & Gaivão I. (Eds.), *Genotoxicity and DNA repair. A practical approach* (pp. 283-296). New York: Humana press; Methods in molecular biology, Series: Methods in Pharmacology and Toxicology, DOI 10.1007/978-1-4939-1068-7_22
 8. Santos, T., Silva, N., Gonçalves, A., Marinho, C., Araújo, C., Sousa, M.,... & Poeta P. (2014). Molecular characterization of antibiotic resistance in Escherichia coli isolates from wild Turdus philomelos in Portugal. In *Industrial, medical and environmental applications of microorganisms. Current status and trends*. (pp. 552-555). Wageningen Academic Publishers. ISBN: 978-90-8686-243-6
 10. Sierra, L. M., & Gaivão, I. (Eds). (2014). *Genotoxicity and DNA repair; a practical approach*. New York: Humana press. Methods in molecular biology, Series: Methods in Pharmacology and Toxicology, Springer. ISBN 978-1-4939-1067-0
 11. Slyskova J., Langie S., Gaivão I., Collins, A. R., & Azqueta A. (2014). A standardized protocol for the in vitro comet-based DNA repair assay. In Sierra L. M & Gaivão I. (Eds.), *Genotoxicity and DNA repair. A practical approach* (pp. 377-396). New York: Humana press; Methods in molecular biology, Series: Methods in Pharmacology and Toxicology, DOI 10.1007/978-1-4939-1068-7_22
 12. Teixeira, A., Oliveira, A., Paulos, K., Leite, A., Márcia, A., Amorim, A., ... & Silva, S.R. (2014). An approach to predict chemical composition of goat Longissimus dorsi muscle by Near Infrared Reflectance Spectroscopy. In Maltin, C., Craigie, C. & Bünger L. (Eds.), *Farm Animal Imaging* (pp. 78-81). Edinburgh: SRUC.
 15. Teixeira, S. R. (2014). New sheep and goat products: “Mantas” and sausages. An integrated project in co-promotion. In Chentouf, M., López-Francos, A., Bengoumi, M., Gabiña, D. (Eds). *Technology creation and tranfer in small ruminants: roles of research, development services and farmer associations*. Options méditerranéennes. Series A: Mediterranean Seminars – Number 108: 273-278. CIHEAM, 2014. ISBN: 2-85352-525-2.

In Spanish

1. Joy, M., Casasús, I., Alvarez, J., Ripoll, G., Teixeira, A., Olaizola, A., ... & Sanz, A. (2014) Opciones para la produccion de corderos ligeros. In *Guía Práctica de producción ovina en pequena escala en Iberoamérica* (pp. 21-26). CYTED, 10/2014; ISBN: 978-9974-99-696-0

2. Moreno, A., Illera, M., Payán, R., Abraham, M.C., & Lombardero, M. (2014). O comportamento do can e do gato. *Benestar Animal. Comportamento dos animais domésticos.* (pp. 90-120). Xunta de Galicia. Consellería do Medio Rural e do Mar.
3. Teixeira, A., & Rodrigues, S. (2014). Proyectos en co-promoción (Integración vertical): una experiencia portuguesa. In *Guía Práctica de producción ovina en pequena escala en Iberoamérica* (pp. 161-166). CYTED, 10/2014; ISBN: 978-9974-99-696-0
4. Teixeira, A., Sañudo, C., Olleta, J.L. Joy, M., & Sanz, A. (2014). Marcas de calidad de carne ovina en la Península Ibérica. In *Guía Práctica de producción ovina en pequena escala en Iberoamérica* (pp. 168-177). CYTED, 10/2014; ISBN: 978-9974-99-696-0

In Portuguese

1. Coelho, A.C., Matos, A.C., Pinto, M.L., & Matos, M. (2014). Reação de polimerase em cadeia (PCR): Detecção de bactérias do complexo *Mycobacterium avium* associadas a linfadenite granulomatosa. In: Cunha, M. V., & Inácio, J. (Coordenação), *Abordagens Moleculares em veterinária* (pp. 233-238). Lisboa: Lidel. Edições Técnicas Lda. ISBN: 978-989-752-034-1.
2. Dominguez, C., Payan, R., Morais, M.F, Nascimento, M.M., Maia, A., Pedrosa, D., & Cruz, G. (2014). Revisão entre pares e pensamento crítico: percurso para uma metodologia transversal. In: *Pensamento Crítico na Educação: Perspetivas atuais no panorama internacional.* (pp. 357-378). Universidade de Aveiro. ISBN: 978-972-789-424-6
3. Esteves, A., Saraiva, C., & Fontes, M.C. (2014). Abates caseiros. In Mendonça, A. (Coordenação). *A segurança dos alimentos em casa* (pp 15-24). Instituto Politécnico de Bragança. Depósito Legal: 377319/14.
4. Ferreira A.S., Paiva-Cardoso, M. N., Thompson, G., & Inácio, J. Capítulo 21 – Detecção de *Leptospira* em amostras biológicas de animais pela reação de polimerase em cadeia em tempo real em formato multiplex. In: Cunha, M. V., & Inácio, J. (Coordenação), *Abordagens Moleculares em veterinária* (pp. 277-282). Lisboa: Lidel. Edições Técnicas Lda. ISBN: 978-989-752-034-1.
5. Orge L., & Loja F. (2014). Instalações, biosegurança e procedimentos operacionais no laboratório de diagnóstico molecular. In: Cunha M.V., Inácio J. (Eds) *Abordagens Moleculares em veterinária.* Lisboa: Lidel. Edições Técnicas Lda. ISBN: 978-989-752-034-1.
6. Saavedra, M. J., & Borges, A. (2014). Legionella. In: Barros, H., Meliço-Silvestre, A., & Taveira N. *Microbiologia Médica - Volume 1; Parte IV - Bacteriologia Médica.* (pp. 419-426). Lisboa: Lidel Edições Técnicas, Lda. ISBN-14: 978-989-752-057-0.
7. Silva N., Rodrigues, J., Vieira-e-Brito, F., & Poeta P. (2014). Abordagens moleculares de larga escala e plataformas de elevado rendimento na deteção e caracterização de agentes infecciosos

relevantes em saúde animal e saúde pública. In: Cunha M.V., Inácio J. (Eds) *Abordagens Moleculares em veterinária*. (pp 157-176). Lisboa: Lidel. Edições Técnicas Lda. ISBN: 978-989-752-034-1.

8. Vieira-Pinto, M., Saraiva, C., Esteves, A., & Fontes, M.C. (2014). Carne de caça selvagem: cuidados a ter na sua preparação em casa In Mendonça, A. (Coordenação). *A segurança dos alimentos em casa* (pp 47-59). Instituto Politécnico de Bragança. Depósito Legal: 377319/14.

Papers in international journals

1. Abreu, A. C., Borges, A., Mergulhao, F., & Simoes, M. (2014). Use of phenyl isothiocyanate for biofilm prevention and control. *International Biodeterioration & Biodegradation*, 86, 34-41. <http://www.sciencedirect.com/science/article/pii/S0964830513001200>
2. Abreu, A. C., Serra, S. C., Borges, A., Saavedra, M. J., Salgado, A. J., & Simoes, M. (2014). Evaluation of the best method to assess antibiotic potentiation by phytochemicals against *Staphylococcus aureus*. *Diagnostic Microbiology and Infectious Disease*, 79(2), 125-134. <http://www.sciencedirect.com/science/article/pii/S0732889314001114>
3. Araújo, C., Muñoz-Atienza, E., Nahuelquín, Y., Poeta, P., Igrejas, G., Hernández, P. E., ... & Cintas, L. M. (2015). Inhibition of fish pathogens by the microbiota from rainbow trout (*Oncorhynchus mykiss*, Walbaum) and rearing environment. *Anaerobe*, 32, 7-14. <http://www.ncbi.nlm.nih.gov/pubmed/25464142>
4. Azevedo, C., Canada, N. & Simões, J. (2014). O protocolo hormonal Ovsynch e suas modificações em vacas leiteiras de alta produção: uma revisão. *Archivos de Zootecnia*, 63(244), 173-187. http://www.uco.es/organiza/servicios/publica/az/php/img/web/19_10_32_3392_06.pdf
5. Azevedo, C., Maia, I., Canada, N., & Simões, J. (2014). Comparison of fertility, regular returns-to-estrus, and calving interval between Ovsynch and CO-synch+CIDR protocols in dairy cows. *Theriogenology*, 82(6), 910-914. <http://www.sciencedirect.com/science/article/pii/S0093691X14003471>
6. Borges, A., Serra, S., Abreu, A. C., Saavedra, M. J., Salgado, A., & Simoes, M. (2014). Evaluation of the effects of selected phytochemicals on quorum sensing inhibition and in vitro cytotoxicity. *Biofouling*, 30(2), 183-195. <http://www.ncbi.nlm.nih.gov/pubmed/24344870>
7. Borges, A., Simoes, L. C., Saavedra, M. J., & Simoes, M. (2014). The action of selected isothiocyanates on bacterial biofilm prevention and control. *International Biodeterioration & Biodegradation*, 86, 25-33. <http://www.sciencedirect.com/science/article/pii/S0964830513000188>
8. Capkovicova, A., Makova, Z., Piesova, E., Alves, A., Faix, S., & Faixova, Z. (2014). Evaluation of the effects of *salvia officinalis* essential oil on plasma biochemistry, gut mucus and quantity of acidic and neutral mucins in the chicken gut. *Acta Veterinaria-Beograd*, 64(1), 138-148. http://www.actaveterinaria.rs/uploads/documents/cdb49a4a0113ba457ce53a03b6d3fbb12211ee2d_14Capkovicova.pdf
9. Cardoso, L., Cortes, H. C., Eyal, O., Reis, A., Lopes, A. P., Vila-Viçosa, M. J., ... & Baneth, G. (2014). Molecular and histopathological detection of *Hepatozoon canis* in red foxes (*Vulpes vulpes*) from Portugal. *Parasit Vectors*, 7, 113. <http://www.parasitesandvectors.com/content/pdf/1756->

[3305-7-113.pdf](#)

10. Carneiro, M., Colaco, B., Brandao, R., Ferreira, C., Santos, N., Soeiro, V., ...& Lavin, S. (2014). Biomonitoring of heavy metals (Cd, Hg, and Pb) and metalloid (As) with the Portuguese common buzzard (*Buteo buteo*). *Environmental Monitoring and Assessment*, 186(11), 7011-7021. <http://link.springer.com/article/10.1007/s10661-014-3906-3>
11. Carvalho, M. I., Pires, I., Prada, J., & Queiroga, F. L. (2014a). A role for T-lymphocytes in human breast cancer and in canine mammary tumors. *BioMed Research International*, 2014, 130894-130894. <http://www.hindawi.com/journals/bmri/2014/130894/>
12. Coelho, C., Vieira-Pinto, M., Faria, A. S., Vale-Goncalves, H., Veloso, O., Paiva-Cardoso, M. d. N., . . . Lopes, A. P. (2014). Serological evidence of *Toxoplasma gondii* in hunted wild boar from Portugal. *Veterinary Parasitology*, 202(3-4), 310-312. <http://www.ncbi.nlm.nih.gov/pubmed/24698660>
13. Correia, I., Arantes-Rodrigues, R., Pinto-Leite, R., & Gaivao, I. (2014). Effects of naproxen on cell proliferation and genotoxicity in MG-63 osteosarcoma cell line. *Journal of Toxicology and Environmental Health-Part A-Current Issues*, 77(14-16), 916-923. <http://www.ncbi.nlm.nih.gov/pubmed/25072723>
14. Correia, S., Nunes-Miranda, J. D., Pinto, L., Santos, H. M., de Toro, M., Sáenz, Y., ... & Igrejas, G. (2014). Complete proteome of a quinolone-resistant *Salmonella* Typhimurium phage type DT104B clinical strain. *International journal of molecular sciences*, 15(8), 14191-14219. <http://www.mdpi.com/1422-0067/15/8/14191>
15. Correia, S., Ponce, P., Jones-Dias, D., Canica, M., Igrejas, G., & Poeta, P. (2014). Vancomycin-resistant enterococci among haemodialysis patients in Portugal: Prevalence and molecular characterization of resistance, virulence and clonality. *Enfermedades Infecciosas y Microbiología Clínica*, 32(3), 174-176. <http://www.ncbi.nlm.nih.gov/pubmed/24169320>
16. Da Costa, R. M. G., Paula-Santos, N., Rocha, A. F., Colaco, A., Lopes, C., & Oliveira, P. A. (2014). The N-Nitrosodiethylamine Mouse Model: Sketching a Timeline of Evolution of Chemically-induced Hepatic Lesions. *Anticancer Research*, 34(12), 7029-7037. <http://ar.iijournals.org/content/34/12/7029.long>
17. de Sousa-Pereira, P., Abrantes, J., Pinheiro, A., Colaco, B., Vitorino, R., & Esteves, P. J. (2014). Evolution of C, D and S-Type Cystatins in Mammals: An Extensive Gene Duplication in Primates. *Plos One*, 9(10). <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0109050>
18. de Vargas Junior, F. M., Martins, C. F., Pinto, G. d. S., Ferreira, M. B., Ricardo, H. d. A., Leao, A. G., . . . Teixeira, A. (2014). The effect of sex and genotype on growth performance, feed efficiency, and carcass traits of local sheep group Pantaneiro and Texel or Santa Ins crossbred finished on feedlot. *Tropical Animal Health and Production*, 46(5), 869-875. <http://link.springer.com/article/10.1007/s11250-014-0579-4>
19. Dias, C., Aires, A., & Saavedra, M. J. (2014). Antimicrobial Activity of Isothiocyanates from Cruciferous Plants against Methicillin-Resistant *Staphylococcus aureus* (MRSA). *International Journal of Molecular Sciences*, 15(11), 19552-19561. <http://www.mdpi.com/1422-0067/15/11/19552>
20. Diez, J. G., & Coelho, A. C. (2014). Cattle producer knowledge toward bovine tuberculosis and implications to its control. *Revista Mexicana De Ciencias Pecuarias*, 5(2), 213-229. <http://www.scielo.org.mx/pdf/rmcp/v5n2/v5n2a7.pdf>
21. Doktorovova, S., Silva, A. M., Gaivao, I., Souto, E. B., Teixeira, J. P., & Martins-Lopes, P. (2014). Comet assay reveals no genotoxicity risk of cationic solid lipid nanoparticles. *Journal of Applied*

- Toxicology*, 34(4), 395-403. <http://onlinelibrary.wiley.com/doi/10.1002/jat.2961/abstract>
22. Domingo, G., Iglesias, A., Cantalapiedra, J., Blanco-Penedo, I., Payan-Carreira, R., Monserrat, L., & Sanchez, L. (2014). Performance of crossbreed fattened calves in commercial farms in Spain. *Journal of Animal and Plant Sciences*, 24(3), 722-729. <http://www.thejaps.org.pk/docs/v-24-3/08.pdf>
 23. Esteves, A., Saraiva, C., Morgado, C., Fontes, M., Ribeiro, P., Soares, K., & Saraiva, S. (2015). Avaliação do bem-estar no transporte e nos currais de descanso pela ocorrência de lesões em carcaças de suínos abatidos em matadouro. *Brazilian Journal of Veterinary Research And Animal Science*, 51(4), 333-339. http://www.revistas.usp.br/bjvras/article/download/56330/pdf_169
 24. Faria, A. S., das Neves Paiva-Cardoso, M., Nunes, M., Carreira, T., Vale-Gonçalves, H. M., Veloso, O., ... & Vieira, M. L. (2014). First Detection of *Borrelia burgdorferi* sensu lato DNA in Serum of the Wild Boar (*Sus scrofa*) in Northern Portugal by Nested-PCR. *EcoHealth*, 1-5. <http://link.springer.com/article/10.1007%2Fs10393-014-0973-4>
 25. Ferreira, L. M. M., Daniel, J. B., Celaya, R., Santos, A. S., Osoro, K., Rodrigues, M. A. M., & Pellikaan, W. F. (2014). Utilization of carbon isotope enrichments ($\delta^{13}\text{C}$) of alkanes as faecal markers to estimate diet composition of goats fed with heathland vegetation. *Animal Feed Science and Technology*, 191, 26-38. [http://www.animalfeedscience.com/article/S0377-8401\(14\)00072-8/abstract](http://www.animalfeedscience.com/article/S0377-8401(14)00072-8/abstract)
 26. Figueira, A. C., Gomes, C., de Oliveira, J. T., Vilhena, H., Carvalheira, J., de Matos, A. J. F., ... & Gaertner, F. (2014). Aberrant P-cadherin expression is associated to aggressive feline mammary carcinomas. *BMC Veterinary Research*, 10. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4254012/>
 27. Freitas, A., Leston, S., Rosa, J., Castilho, M. D. C., Barbosa, J., Rema, P., ... & Ramos, F. (2014). Multi-residue and multi-class determination of antibiotics in gilthead sea bream (*Sparus aurata*) by ultra high-performance liquid chromatography-tandem mass spectrometry. *Food Additives & Contaminants: Part A*, 31(5), 817-826. <http://www.tandfonline.com/doi/pdf/10.1080/19440049.2014.891764>
 28. Gama, A., Elias, J., Ribeiro, A. J., Alegria, N., Schallig, H. D. F. H., Silva, F., ... & Cotovio, M. (2014). Cutaneous leishmaniosis in a horse from northern Portugal. *Veterinary Parasitology*, 200(1-2), 189-192. <http://www.sciencedirect.com/science/article/pii/S0304401713006663>
 29. García Díez, J., & Coelho, A. C. (2014). Evaluación del conocimiento de los ganaderos sobre la tuberculosis bovina e implicaciones para su control. *Revista Mexicana de Ciencias Pecuarias*, 5(2), 213-229. <http://www.scielo.org.mx/pdf/rmcp/v5n2/v5n2a7.pdf>
 30. Garcia-Diez, J., & Coelho, A. C. (2014). Causes and factors related to pig carcass condemnation. *Veterinari Medicina*, 59(4), 194-201. <http://vri.cz/docs/vetmed/59-4-194.pdf>
 31. Gil da Costa, R. M., Oliveira, P. A., Bastos, M. M. S. M., Lopes, C. C., & Lopes, C. (2014). Ptaquiloside-Induced Early-Stage Urothelial Lesions Show Increased Cell Proliferation and Intact beta-Catenin and E-Cadherin Expression. *Environmental Toxicology*, 29(7), 763-769. <http://onlinelibrary.wiley.com/doi/10.1002/tox.21803/abstract>
 32. Gomes, M. J., Guedes, C. M., Silva, S. R., Azevedo, J. M. T., & Dias-da-Silva, A. (2014). Utilisation of high- and low-roughage diets by a local and an exotic breed of sheep: intake, growth and digestive efficiency. *Livestock Science*, 167, 110-120. <http://www.sciencedirect.com/science/article/pii/S1871141314002169>
 33. Gonçalves, A., Poeta, P., Monteiro, R., Marinho, C., Silva, N., Guerra, A., ... & Igrejas, G. (2014). Comparative proteomics of an extended spectrum β -lactamase producing *Escherichia coli* strain

- from the Iberian wolf. *Journal of proteomics*, 104, 80-93. <http://www.sciencedirect.com/science/article/pii/S1874391914001110>
34. Goufo, P., Ferreira, L. M. M., Carranca, C., Rosa, E. A. S., & Trindade, H. (2014). Effect of Elevated Carbon Dioxide Concentration on Rice Quality: Proximate Composition, Dietary Fibers, and Free Sugars. *Cereal Chemistry*, 91(3), 293-299. <http://cerealchemistry.aaccnet.org/doi/pdf/10.1094/CCHEM-12-13-0256-R>
35. Guilherme, S., Santos, M. A., Gaivao, I., & Pacheco, M. (2014a). Are DNA-damaging effects induced by herbicide formulations (Roundup (R) and Garlon (R)) in fish transient and reversible upon cessation of exposure? *Aquatic Toxicology*, 155, 213-221. <http://www.sciencedirect.com/science/article/pii/S0166445X14002136>
36. Guilherme, S., Santos, M. A., Gaivao, I., & Pacheco, M. (2014b). DNA and chromosomal damage induced in fish (*Anguilla anguilla* L.) by aminomethylphosphonic acid (AMPA)-the major environmental breakdown product of glyphosate. *Environmental Science and Pollution Research*, 21(14), 8730-8739. <http://link.springer.com/article/10.1007/s11356-014-2803-1>
37. Guimarães, M. J., Carvalho, M. I., Pires, I., Prada, J., Gil, A. G., Lopes, C., & Queiroga, F. L. (2014). Concurrent expression of cyclo-oxygenase-2 and epidermal growth factor receptor in canine malignant mammary tumours. *Journal of Comparative Pathology*, 150(1), 27-34. <http://www.sciencedirect.com/science/article/pii/S0021997513001151>
38. Henriques, A., Arantes-Rodrigues, R., Faustino-Rocha, A. I., Teixeira-Guedes, C. I., Pinho-Oliveira, J., Talhada, D., ... & Oliveira, P. A. (2014). The effects of whole green tea infusion on mouse urinary bladder chemical carcinogenesis. *Iranian Journal of Basic Medical Sciences*, 17(2), 145. http://ijbms.mums.ac.ir/article_2249_391.html
39. Lemos, M., Borges, A., Teodósio, J., Araújo, P., Mergulhão, F., Melo, L., & Simões, M. (2014). The effects of ferulic and salicylic acids on *Bacillus cereus* and *Pseudomonas fluorescens* single- and dual-species biofilms. *International Biodeterioration & Biodegradation*, 86, 42-51. <http://www.sciencedirect.com/science/article/pii/S0964830513002242>
40. Lopes, A. C., Cova, T. F. G. G., Pais, A. A. C. C., Pereira, J. L. G. F. S. C., Colaco, B., & Cabrita, A. M. S. (2014). Improving discrimination in the grading of rat mammary tumors using two-dimensional mapping of histopathological observations. *Experimental and Toxicologic Pathology*, 66(1), 73-80. <http://www.sciencedirect.com/science/article/pii/S0940299313000997>
41. Lopes, A. P., Dubey, J. P., Darde, M. L., & Cardoso, L. (2014). Epidemiological review of *Toxoplasma gondii* infection in humans and animals in Portugal. *Parasitology*, 141(13), 1699-1708. <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=9366166&fileId=S0031182014001413>
42. Lopes, A. P., Granada, S., Oliveira, A. C., Brancal, H., Dubey, J. P., Cardoso, L., & Vilhena, H. (2014). Toxoplasmosis in dogs: first report of *Toxoplasma gondii* infection in any animal species in Angola. *Pathogens and Global Health*, 108(7), 344-346. <http://www.maneyonline.com/doi/abs/10.1179/2047773214Y.0000000160>
43. López, C.L., Celaya, R., Ferreira, L.M.M., García, U., Martínez, A., & Osoro, K. (2014). El ganado caballar en los montes asturianos: II Rendimiento y conducta en brezales-tojales parcialmente mejorados en comparación con rumiantes. *Tecnología Agroalimentaria*, 14, 41-47. <http://www.serida.org/publicacionesdetalle.php?id=6005>
44. Lourenco, A. L., Dias-da-Silva, A., Santos, A. S., Rodrigues, M. A. M., Cone, J. W., & Ferreira, L. M. M. (2014). Comparative digestibility of low-quality grass hay by two breeds of cattle differing in mature live weight. *Journal of Animal Physiology and Animal Nutrition*, 98(3), 453-457.

<http://onlinelibrary.wiley.com/doi/10.1111/jpn.12090/references>

45. Maia, C., Cortes, H., Brancal, H., Lopes, A. P., Pimenta, P., Campino, L., & Cardoso, L. (2014). Prevalence and correlates of antibodies to *Neospora caninum* in dogs in Portugal. *Parasite*, *21*. <http://www.parasite-journal.org/articles/parasite/pdf/2014/01/parasite140058.pdf>
46. Marinho, C., Igrejas, G., Gonçalves, A., Silva, N., Santos, T., Monteiro, R., ... & Poeta, P. (2014). Azorean wild rabbits as reservoirs of antimicrobial resistant *Escherichia coli*. *Anaerobe*, *30*, 116-119. <http://www.sciencedirect.com/science/article/pii/S1075996414001310>
47. Marques, A., Custodio, M., Guilherme, S., Gaivao, I., Santos, M. A., & Pacheco, M. (2014). Assessment of chromosomal damage induced by a deltamethrin-based insecticide in fish (*Anguilla anguilla* L.) - A follow-up study upon exposure and post-exposure periods. *Pesticide Biochemistry and Physiology*, *113*, 40-46. <http://www.sciencedirect.com/science/article/pii/S0048357514000923>
48. Marques, A., Guilherme, S., Gaivao, I., Santos, M. A., & Pacheco, M. (2014). Progression of DNA damage induced by a glyphosate-based herbicide in fish (*Anguilla anguilla*) upon exposure and post-exposure periods - Insights into the mechanisms of genotoxicity and DNA repair. *Comparative Biochemistry and Physiology C-Toxicology & Pharmacology*, *166*, 126-133. <http://www.sciencedirect.com/science/article/pii/S1532045614001045>
49. Martínez-Díaz, V. L., Silvestre-Ferreira, A. C., Vilhena, H., Pastor, J., Francino, O., & Altet, L. (2013). Prevalence and co-infection of haemotropic mycoplasmas in Portuguese cats by real-time polymerase chain reaction. *Journal of feline medicine and surgery*, *15*(10), 879-885. <http://jfm.sagepub.com/content/15/10/879.short>
50. Mateus, T. L., Castro, A., Ribeiro, J. N., & Vieira-Pinto, M. (2014). Multiple Zoonotic Parasites Identified in Dog Feces Collected in Ponte de Lima, Portugal—A Potential Threat to Human Health. *International Journal of Environmental Research and Public Health*, *11*(9), 9050-9067. <http://www.mdpi.com/1660-4601/11/9/9050>
51. Mateus, T., Maia, R. L., & Teixeira, P. (2014). Awareness of listeriosis among Portuguese pregnant women. *Food Control*, *46*, 513-519. <http://www.sciencedirect.com/science/article/pii/S0956713514003417>
52. Matos, A. C., Figueira, L., Martins, M. H., Loureiro, F., Pinto, M. L., Matos, M., & Coelho, A. C. (2014). Survey of mycobacterium avium subspecies paratuberculosis in road-killed wild carnivores in Portugal. *Journal of Zoo and Wildlife Medicine*, *45*(4), 775-781. <http://www.bioone.org/doi/pdf/10.1638/2014-0010.1>
53. Matos, A. C., Figueira, L., Martins, M. H., Matos, M., Morais, M., Dias, A. P., ... & Coelho, A. C. (2014). Disseminated Mycobacterium bovis Infection in Red Foxes (*Vulpes vulpes*) with Cerebral Involvement Found in Portugal. *Vector-Borne and Zoonotic Diseases*, *14*(7), 531-533. <http://online.liebertpub.com/doi/abs/10.1089/vbz.2013.1500>
54. Matos, A. C., Figueira, L., Martins, M. H., Pinto, M. L., Matos, M., & Coelho, A. C. (2014). New Insights into Mycobacterium bovis Prevalence in Wild Mammals in Portugal. *Transboundary and Emerging Diseases*. <http://www.ncbi.nlm.nih.gov/pubmed/25484245>
55. Monte, J., Abreu, A. C., Borges, A., Simões, L. C., & Simões, M. (2014). Antimicrobial activity of selected phytochemicals against *Escherichia coli* and *Staphylococcus aureus* and their biofilms. *Pathogens*, *3*(2), 473-498. <http://www.mdpi.com/2076-0817/3/2/473>
56. Monteiro-Cardoso, V. F., Silva, A. M., Oliveira, M. M., Peixoto, F., & Videira, R. A. (2014). Membrane lipid profile alterations are associated with the metabolic adaptation of the Caco-2 cells to aglycemic nutritional condition. *Journal of Bioenergetics and Biomembranes*, *46*(1), 45-

57. <http://link.springer.com/article/10.1007%2Fs10863-013-9531-y>
57. Moreira, F. A., Cardoso, L., & Coelho, A. C. (2014). Decreased production in broiler breeders due to tendon rupture by *Mycoplasma synoviae*. *Journal of the Hellenic Veterinary Medical Society*, 65(2), 109-114. http://www.wpsa-aeca.es/aeca_imgs_docs/moreira.pdf
58. Moreira, F. A., Pinto, M. L., Cardoso, L., & Coelho, A. C. (2014). Presumptive reovirus infection in broiler breeders. *American Journal of Animal and Veterinary Sciences*, 9(1), 53-55. <http://thescipub.com/PDF/ajavsp.2014.53.55.pdf>
59. Moreno-Gonzalo, J., Osoro, K., Garcia, U., Frutos, P., Celaya, R., Ferreira, L. M. M., ... & Ferre, I. (2014). Anthelmintic effect of heather in goats experimentally infected with *Trichostrongylus colubriformis*. *Parasitology Research*, 113(2), 693-699. <http://link.springer.com/article/10.1007/s00436-013-3697-4?no-access=true>
60. Morinha, F., Travassos, P., Seixas, F., Martins, A., Bastos, R., Carvalho, D., ... & Cabral, J. A. (2014). Differential mortality of birds killed at wind farms in Northern Portugal. *Bird Study*, 61(2), 255-259. <http://www.tandfonline.com/doi/full/10.1080/00063657.2014.883357>
61. Nahavandinejad, M., Seidavi, A., Asadpour, L., & Payan-Carreira, R. (2014). Blood biochemical parameters of broilers fed differently thermal processed soybean meal. *Revista MVZ Cordoba*, 19(3), 4301-4315. http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0122-02682014000300011
62. Oliveira, A. F., Rodrigues, S., Leite, A., Paulos, K., Pereira, E., & Teixeira, A. (2014). SHORT COMMUNICATION: Quality of ewe and goat meat cured product mantas. An approach to provide value added to culled animals. *Canadian Journal of Animal Science*, 94(3), 459-462. <http://pubs.aic.ca/journal/cjas>
63. Paiva-Cardoso, M. d. N., Morinha, F., Barros, P., Vale-Goncalves, H., Coelho, A. C., Fernandes, L., ... & Cabral, J. A. (2014). First isolation of *Pseudogymnoascus destructans* in bats from Portugal. *European Journal of Wildlife Research*, 60(4), 645-649. <http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s10344-014-0831-2>
64. Pascoal, A., Rodrigues, S., Teixeira, A., Feás, X., & Estevinho, L. M. (2014). Biological activities of commercial bee pollens: Antimicrobial, antimutagenic, antioxidant and anti-inflammatory. *Food and Chemical Toxicology*, 63, 233-239. <http://www.sciencedirect.com/science/article/pii/S0278691513007552>
65. Payan-Carreira, R., Santos, C., Miranda, S., Pereira, R. M. L. N., Santos, D., & Pires, M. A. (2014). Temporal changes in neutral endopeptidase/CD10 immunoeexpression in the cyclic and early pregnant canine endometrium. *Theriogenology*, 82(6), 815-826. <http://www.sciencedirect.com/science/article/pii/S0093691X14003148>
66. Pena, L., Gama, A., Goldschmidt, M. H., Abadie, J., Benazzi, C., Castagnaro, M., ... & Martin de las Mulas, J. (2014). Canine Mammary Tumors: A Review and Consensus of Standard Guidelines on Epithelial and Myoepithelial Phenotype Markers, HER2, and Hormone Receptor Assessment Using Immunohistochemistry. *Veterinary Pathology*, 51(1), 127-145. <http://vet.sagepub.com/content/early/2013/11/13/0300985813509388.full.pdf>
67. Pereira, V., Dias, C., Vasconcelos, M. C., Rosa, E., & Saavedra, M. J. (2014). Antibacterial activity and synergistic effects between *Eucalyptus globulus* leaf residues (essential oils and extracts) and antibiotics against several isolates of respiratory tract infections (*Pseudomonas aeruginosa*). *Industrial Crops and Products*, 52, 1-7. <http://www.sciencedirect.com/science/article/pii/S0926669013005438>

68. Pinto-Leite, R., Arantes-Rodrigues, R., Ferreira, R., Palmeira, C., Colaço, A., da Silva, V. M., ... & Santos, L. L. (2014, January). Temsirolimus improves cytotoxic efficacy of cisplatin and gemcitabine against urinary bladder cancer cell lines. In *Urologic Oncology: Seminars and Original Investigations* (Vol. 32, No. 1, pp. 41-e11). [http://www.urologiconcology.org/article/S1078-1439\(13\)00198-1/pdf](http://www.urologiconcology.org/article/S1078-1439(13)00198-1/pdf) .
69. Quaresma, M., Martins, A. M. F., Rodrigues, J. B., Colaco, J., & Payan-Carreira, R. (2014). Pedigree and herd characterization of a donkey breed vulnerable to extinction. *Animal*, 8(3), 354-359. http://journals.cambridge.org/download.php?file=%2FANM%2FANM8_03%2FS1751731113002218a.pdf&code=6dce64968f7718721e3a1a9fe14560df
70. Quintas, H., Alegria, N., Mendonca, A., Botelho, A., Alves, A., & Pires, I. (2014). Coexistence of Tuberculosis and Mammary Carcinoma in a Goat. *Reproduction in Domestic Animals*, 49(4), 606-610. <http://onlinelibrary.wiley.com/doi/10.1111/rda.12332/abstract>
71. Radhouani, H., Silva, N., Poeta, P., Torres, C., Correia, S., & Igrejas, G. (2014). Potential impact of antimicrobial resistance in wildlife, environment and human health. *Frontiers in Microbiology*, 5. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3913889/>
72. Ramos, S., Chafsey, I., Silva, N., Hébraud, M., Santos, H., Capelo-Martinez, J. L., ... & Igrejas, G. (2015). Effect of vancomycin on the proteome of the multiresistant *Enterococcus faecium* SU18 strain. *Journal of proteomics*, 113, 378-387. <http://www.sciencedirect.com/science/article/pii/S1874391914004783>
73. Raposo, T., Gregorio, H., Pires, I., Prada, J., & Queiroga, F. L. (2014). Prognostic value of tumour-associated macrophages in canine mammary tumours. *Veterinary and Comparative Oncology*, 12(1), 10-19. <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5829.2012.00326.x/pdf>
74. Requicha, J. F., Viegas, C. A., Munoz, F., Azevedo, J. M., Leonor, I. B., Reis, R. L., ... & Gomes, M. E. (2014). A Tissue Engineering Approach for Periodontal Regeneration Based on a Biodegradable Double-Layer Scaffold and Adipose-Derived Stem Cells. *Tissue Engineering Part A*, 20(17-18), 2483-2492. <http://online.liebertpub.com/doi/abs/10.1089/ten.tea.2013.0360?journalCode=tea>
75. Requicha, J.F., Pires, M.A., Albuquerque, C.M., & Viegas, C.A. (2014). Canine oral cavity tumours: a retrospective study. *Journal of Pathology Research* 3 (1), 46-48. <https://repositorio.utad.pt/handle/10348/4578>
76. Ribeiro, V., Garcia, M., Oliveira, R., Gomes, P. S., Colaco, B., & Fernandes, M. H. (2014). Bisphosphonates induce the osteogenic gene expression in co-cultured human endothelial and mesenchymal stem cells. *Journal of Cellular and Molecular Medicine*, 18(1), 27-37. <http://onlinelibrary.wiley.com/doi/10.1111/jcmm.12154/abstract>
77. Rodrigues, M. A., Lourenço, A. L., Cone, J. W., Nunes, F. M., Santos, A. S., Cordeiro, J. M., ... & Ferreira, L. M. (2014). Evaluation of the nutritive value of muiumba (*Baikiaea plurijuga*) seeds: chemical composition, in vitro organic matter digestibility and in vitro gas production. *SpringerPlus*, 3(1), 311. <http://www.springerplus.com/content/3/1/311>
78. Rodrigues, P. O., Martins, S. V., Lopes, P. A., Ramos, C., Miguéis, S., Alfaia, C. M., ... & Prates, J. A. (2014). Influence of feeding graded levels of canned sardines on the inflammatory markers and tissue fatty acid composition of Wistar rats. *British Journal of Nutrition*, 112(03), 309-319. <http://online.liebertpub.com/doi/abs/10.1089/ten.tea.2013.0360>
79. Santos, N. P., Colaco, A., da Costa, R. M. G., Oliveira, M. M., Peixoto, F., & Oliveira, P. A. (2014). N-diethylnitrosamine mouse hepatotoxicity: Time-related effects on histology and oxidative stress. *Experimental and Toxicologic Pathology*, 66(9-10), 429-436.

<http://www.sciencedirect.com/science/article/pii/S094029931400092X>

80. Santos, N. P., Oliveira, P. A., Arantes-Rodrigues, R., Faustino-Rocha, A. I., Colaco, A., Lopes, C., & Gil da Costa, R. M. (2014). Cytokeratin 7/19 expression in N-diethylnitrosamine-induced mouse hepatocellular lesions: implications for histogenesis. *International Journal of Experimental Pathology*, 95(3), 191-198. <http://onlinelibrary.wiley.com/doi/10.1111/iep.12082/abstract>
81. Santos, S. M. A., Videira, R. A., Fernandes, M. A. S., Santos, M. S., Moreno, A. J. M., Vicente, J. A. F., & Jurado, A. S. (2014). Toxicity of the herbicide linuron as assessed by bacterial and mitochondrial model systems. *Toxicology in Vitro*, 28(5), 932-939. <http://www.sciencedirect.com/science/article/pii/S0887233314000678>
82. Santos, S. M., Dinis, A. M., Peixoto, F., Ferreira, L., Jurado, A. S., & Videira, R. A. (2014). Interaction of Fullerene Nanoparticles With Biomembranes: From the Partition in Lipid Membranes to Effects on Mitochondrial Bioenergetics. *Toxicological Sciences*, 138(1), 117-129. <http://toxsci.oxfordjournals.org/content/138/1/117.long>
83. Seidavi, A., Asadpour, L., Dadashbeiki, M., & Payan-Carreira, R. (2014). Effects of Dietary Fish Oil and Green Tea Powder Supplementation on Broiler Chickens Immunity. *Acta Scientiae Veterinariae*, 42 <http://www.redalyc.org/pdf/2890/289029240009.pdf>
84. Silva, A., Venancio, C., Ortiz, A. L., Souza, A. P., Amorim, P., & Ferreira, D. A. (2014). The effect of high doses of remifentanyl in brain near-infrared spectroscopy and in electroencephalographic parameters in pigs. *Veterinary Anaesthesia and Analgesia*, 41(2), 153-162. <http://onlinelibrary.wiley.com/doi/10.1111/vaa.12091/abstract>
85. Soares, J. P., Cortinhas, A., Bento, T., Leitao, J. C., Collins, A. R., Gaivao, I., & Mota, M. P. (2014). Aging and DNA damage in humans: a meta-analysis study. *Aging-U.S.*, 6(6), 432-439. <http://www.impactaging.com/papers/v6/n6/pdf/100667.pdf>
86. Sousa, C. P., de Azevedo, J. T., Reis, R. L., Gomes, M. E., & Dias, I. R. (2014). Short-term variability in biomarkers of bone metabolism in sheep. *Lab Animal*, 43(1), 21-26. <http://www.labanimal.com/labanimal/journal/v43/n1/full/labanimal.418.html>
87. Sousa, C. P., De Azevedo, J. T., Silva, A. M., Viegas, C. A., Reis, R. L., Gomes, M. E., & Dias, I. R. (2014). Serum total and bone alkaline phosphatase levels and their correlation with serum minerals over the lifespan of sheep. *Acta Veterinaria Hungarica*, 62(2), 205-214. <http://www.akademiai.com/doi/abs/10.1556/AVet.2013.049>
88. Sousa, M., Goncalves, A., Silva, N., Serra, R., Alcaide, E., Zorrilla, I., . . . Poeta, P. (2014). Acquired antibiotic resistance among wild animals: the case of Iberian Lynx (*Lynx pardinus*). *Veterinary Quarterly*, 34(2), 105-112. <http://www.tandfonline.com/doi/pdf/10.1080/01652176.2014.949391>
89. Sousa, M., Silva, N., Igrejas, G., Silva, F., Sargo, R., Alegria, N., ...& Poeta, P. (2014). Antimicrobial resistance determinants in *Staphylococcus* spp. recovered from birds of prey in Portugal. *Veterinary Microbiology*, 171(3-4), 436-440. <http://www.sciencedirect.com/science/article/pii/S0378113514001242>
90. Teixeira-Guedes, C. I., Faustino-Rocha, A. I., Talhada, D., Duarte, J. A., Ferreira, R., Seixas, F., & Oliveira, P. A. (2014). A liver schwannoma observed in a female Sprague-Dawley rat treated with MNU. *Experimental and Toxicologic Pathology*, 66(2-3), 125-128. <http://www.sciencedirect.com/science/article/pii/S0940299313001152>
91. Vale-Gonçalves, H. M., Cabral, J. A., Faria, M. C., Nunes-Pereira, M., Faria, A. S., Veloso, O., ... & Paiva-Cardoso, M. N. (2014). Prevalence of *Leptospira* antibodies in wild boars (*Sus scrofa*) from Northern Portugal: risk factor analysis. *Epidemiology and Infection*, 1-5.

http://journals.cambridge.org/article_S0950268814003331

92. Vasconcelos, H., Saraiva, C., & de Almeida, J. M. M. M. (2014). Evaluation of the Spoilage of Raw Chicken Breast Fillets Using Fourier Transform Infrared Spectroscopy in Tandem with Chemometrics. *Food and Bioprocess Technology*, 7(8), 2330-2341. <http://link.springer.com/article/10.1007%2Fs11947-014-1277-y>
93. Verlhac-Trichet, V., Vielma, J., Dias, J., Rema, P., Santigosa, E., Wahli, T., & Vogel, K. (2014). The Efficacy of a Novel Microbial 6-Phytase Expressed in *Aspergillus oryzae* on the Performance and Phosphorus Utilization of Cold-and Warm-Water Fish: Rainbow Trout, *Oncorhynchus mykiss*, and Nile Tilapia, *Oreochromis niloticus*. *Journal of the World Aquaculture Society*, 45(4), 367-379. <http://onlinelibrary.wiley.com/doi/10.1111/jwas.12133/abstract>
94. Vieira, A. L., Vieira, M. J., Oliveira, J. M., Simões, A. R., Diez-Baños, P., & Gestal, J. (2014). Prevalence of canine heartworm (*Dirofilaria immitis*) disease in dogs of central Portugal. *Parasite*, 21. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3927308/pdf/parasite-21-5.pdf>
95. Vieira, L., Silvestre-Ferreira, A. C., Fontes-Sousa, A. P., Balreira, A. C., Morchón, R., Carretón, E., ... & Montoya-Alonso, J. A. (2014). Seroprevalence of heartworm (*Dirofilaria immitis*) in feline and canine hosts from central and northern Portugal. *Journal of Helminthology*, 1-5. <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=9260664&fileId=S0022149X14000352>
96. Vilhena, H., Granada, S., Oliveira, A. C., Schallig, H. D. F. H., Nachum-Biala, Y., Cardoso, L., & Baneth, G. (2014). Serological and molecular survey of *Leishmania* infection in dogs from Luanda, Angola. *Parasites & Vectors*, 7. <http://www.parasitesandvectors.com/content/7/1/114>

As abstracts in international journals

1. Carvalho, M. I., Pires, I., Prada, J., & Queiroga, F. L. (2014b). The Interplay Between CD3+T-Lymphocytes And Concurrent COX-2/EGFR Expression In Canine Malignant Mammary Tumours. *Anticancer Research*, 34(10), 5855-5856. [Abstr.]
2. Faustino-Rocha, A. I., Gama, A., Pires, M. J., Oliveira, P. A., & Ginja, M. (2014). Effects of a mast cell stabilizer on the vascularization of mammary tumors: ultrasonographic evaluation. *Anticancer Research*, 34(10), 5901-5901. [Abstr.]
3. Faustino-Rocha, A. I., Pinto, C., Gama, A., & Oliveira, P. A. (2014). Effects of ketotifen on mammary tumors volume and weight. *Anticancer Research*, 34(10), 5902-5902. [Abstr.]
4. Ferreira, C., Resende, L., Pires, I., Prada, J., & Queiroga, F. L. (2014). Study of EGFR immunoexpression in canine melanocytic tumors. Clinical and therapeutic implications. *Anticancer Research*, 34(10), 6123-6124. [Abstr.]
5. Gregorio, H., Pires, I., Prada, J., & Queiroga, F. L. (2014). Use of metronomic protocols in the treatment of several end-stage dog cancers: a new approach and implications as a model for human disease. *Anticancer Research*, 34(10), 6124-6125. [Abstr.]
6. Liberal, A., Queiroga, F. L., Pires, I., Carvalho, M. I., & Prada, J. (2014). Study of egfr expression in canine mast cell tumors: possible implications for therapy. *Anticancer Research*, 34(10), 6124-6124. [Abstr.]
7. Payan Carreira, R., & Quaresma, M. (2014). Characterization of the estrous cycle during breeding season on Asinina de Miranda donkeys. *Reproduction in Domestic Animals*, 49, 87-87. [Abstr.]
8. Quaresma, M., Silva, S., & Payan-Carreira, R. (2014). Influence of body condition score on

triggering anestrus during non-breeding season on Asinina de Miranda donkeys. *Reproduction in Domestic Animals*, 49, 89-89. [Abstr.]

9. Queiroga, F. L., Carvalho, M. I., Raposo, T., Prada, J., Gregorio, H., & Pires, I. (2014). New insights into COX-2 pathways in cancer: the dog as a promising model. *Anticancer Research*, 34(10), 6125-6125. [Abstr.]
10. Silva, J., Pinto-Leite, R., Faustino-Rocha, A. I., Colaco, A., Arantes-Rodrigues, R., & Oliveira, P. A. (2014a). Autophagy and apoptosis analysis on t24 and 5637 cells induced by carboplatin and piroxicam. *Anticancer Research*, 34(10), 5901-5902 [Abstr.]
11. Silva, J., Pinto-Leite, R., Faustino-Rocha, A. I., Colaco, A., Arantes-Rodrigues, R., & Oliveira, P. A. (2014b). Carboplatin and piroxicam effects on human urinary bladder cancer cell lines. *Anticancer Research*, 34(10), 5902-5903. [Abstr.]

Papers in national journals

1. Azevedo, J., Rodrigues, I., Valentim, R., Montenegro, T. & Sacoto S. (2014). Maneio Reprodutivo em Ovinos e Caprinos. 1. Sistemas de Intensificação Reprodutiva em Ovinos. *Agrotec*, 12, 12-16.
2. Azevedo, J., Rodrigues, I., Valentim, R., Montenegro, T. & Sacoto S. (2014). Maneio Reprodutivo em Ovinos e Caprinos. 2. Taxa de Substituição em Ovinos e Caprinos (Parte I/II). *Agrotec*, 13, 44-48.
3. Barros, A., Dominguez-Perles, R., Rodrigues, M., & Ferreira, L. (2014). Valorização de feijão-frade como fonte autóctone de proteína. *Frutas e Legumes*, 147, 74-75.
4. Esteves, A., Oliveira, I., Ramos, P., Carvalho, A., Nazário, N., & Seixas, F. (2014). Huffmanella sp. (nematoda Trichosomoididae) em Microchirus azevia capturada na costa portuguesa. P22, *Acta Parasitológica Portuguesa*, 20(1/2), 192-193.
5. Rodrigues, F. T., Diz-Lopes, D., Lopes, A. P., & Cardoso, L. (2014). Babesiose canina no Nordeste Transmontano. *Acta Parasitológica Portuguesa*, 20 (1/2), 25 – 28.
6. Teixeira, A., (2014). BISIPORC – Produção extensiva de porcos da raça Bísara em dois sistemas alternativos: engorda com concentrado vs castanha. *A Voz do Campo*, revista de agricultura, 171. DOI: 10.13140/2.1.1428.0480
7. Vieira, A.L., Vieira, M.J., Oliveira, J.M., Simões, A.R., Diez-Banos, P., & Gestal, J. (2014). Seroprevalência de Dirofilariose (*Dirofilaria immitis*) na população canina e felina da região centro de Portugal. *Acta Parasitológica Portuguesa*, 20 (1/2).

Communications in International Meetings

1. Barros, P., Morinha, F., Vale-Gonçalves, H.M., Coelho, A.C., Fernandes, L., Travassos, P., ..., & Paiva-Cardoso, M.N. (2014). First isolation of *Pseudogymnoascus destructans* in bats from Portugal. V Jornadas Asociación Española y el Estudio de los Murciélagos (SECEMU 2014), 6 e 7 de dezembro.
2. Borges, A., Saavedra, M. J., & Simões, M. (2014). A study on the potential of dietary phytochemicals to inhibit quorum sensing and on their cytotoxicity in a mouse lung fibroblast cell line. Meeting of European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Study Group for Biofilms (ESGB) “Biofilm-based Healthcare-associated Infections: from

- Microbiology to Clinics”, 9-10 outubro, Santa Lucia Foundation Research Hospital, Roma, Italia, pp. 89.
3. Borges, A., Saavedra, M. J., & Simões, M. (2014). Antibiofilm activity of plant molecules against *Pseudomonas aeruginosa* and *Staphylococcus aureus*. 62nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2014), 31 agosto a 4 setembro, University of Minho, Campus de Azurém, Guimarães, Portugal, pp. 297.
 4. Coelho, C., Gómez-Morales, M. A., Lopes, A. P., Gomes, J., & Vieira-Pinto, M. (2014). Baixa especificidade do teste ELISA na deteção de IgG para *Trichinella* spp. em soro e suco muscular de javalis (*Sus scrofa*). Rusi, V Reunión sobre Ungulados Silvestres Ibéricos, Ciudad Real, Espanha.
 5. Cruz, A., Mateus, T., Carolino, N., Ramalho, F., & Rocha, H. (2014). Evaluation of Food Safety Conditions of Seafood Sales in Coimbra. III International Congress on Environmental Health, 24 - 26 setembro, Health Sciences School of Polytechnic Institute of Porto, Portugal, Porto, Portugal.
 6. Cruz, A., Mateus, T., Ramalho, F., & Rocha, H. (2014). Seafood Hazards: A Review. III International Congress on Environmental Health, 24 - 26 setembro, Health Sciences School of Polytechnic Institute of Porto, Portugal, Porto, Portugal.
 7. Faustino-Rocha, A.I., Gama, A., Rodrigues, D., Colaço, B., Vala, H., Pires, M.J., & Oliveira, P.A. (2014). Effects of intense pulsed light on skin carcinogenesis (PS-07-005). Proceedings from 26th European Congress of Pathology: Pathology-understanding disease. ExCel, London, United Kingdom.
 8. Faustino-Rocha, A.I., Pinto, C., Gama, A., & Oliveira, P.A. (2014). Effects of ketotifen on mammary tumors volume and weight. Proceedings from 9th International Conference of Anticancer Research, 6-10 de outubro, Sithonia, Greece.
 9. Faustino-Rocha, A.I., Gama, A., Pires, M.J., Oliveira, P.A., & Ginja, M. (2014). Effects of a mast cell stabilizer on the vascularization of mammary tumors: ultrasonographic evaluation. Proceedings from 9th International Conference of Anticancer Research, 6-10 de outubro, Sithonia, Greece.
 10. Ferreira, C., Resende, L., Pires, I., Prada, J., & Queiroga, F.L. (2014). Study of EGFR Immunoexpression in Canine Melanocytic Tumors: Clinical and Therapeutic Implications. Proceedings from 9th International Conference of Anticancer Research, 6-10 de outubro, Sithonia, Greece.
 11. Fontinha, F., Saraiva, A. L., Gartner, F., PayanCarreira, R., & Pires, M.A. (2014). Immunoexpression of TNF alpha on cyclic cat endometrium and in feline endometrial adenocarcinomas. 17th EVSSAR Congress, Wroclow.
 12. Fontinha, F., Payan-Carreira, R., Saraiva, A.L., & Pires, M.A. (2014). The expression of Caspase 3 in Feline Endometrial Adenocarcinomas. Cell Death in Cancer, 30 janeiro a 1 fevereiro, Amsterdão.
 13. Gomes, I., Malheiro, J., Abreu, A. C., Borges, A., Mergulhão, F., & Simões, M. (2014). Use of eugenol and cuminaldehyde for disinfection of stainless steel surfaces. 62nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2014), 31 agosto a 4 setembro, University of Minho, Campus de Azurém, Guimarães, Portugal, pp. 543.
 14. Gregório, H., Pires, I., Prada, J., & Queiroga, F.L. (2014). Use of Metronomic Protocols In The Treatment Of Several End-Stage Dog Cancers: A New Approach And Implications As A Model For

- Human Disease. 9th International Conference of Anticancer Research, 6-10 de outubro, Sithonia, Grécia.
15. Gregorio, H., Prada, J., Pires, I., & Queiroga, F.L. (2014). Role of Cyclooxygenase-2 in prognosis of canine mast cell tumours. 24th Annual ECVIM-CA Congress, 4-6 de Setembro, Mainz, Alemanha.
 16. Guilherme, S., Venturini, F., Santos, M.A., Gaivão, I., & Pacheco, M. (2014). The transience of DNA-damaging effects induced by herbicide formulations (Roundup® and Garlon®) in fish (*Anguilla anguilla*) upon cessation of exposure. XXI Congreso de la Sociedad Española de Mutagénesis Ambiental, 18-20 junho, Pamplona, Espanha.
 17. Liberal, A., Queiroga, F.L., Pires, I., Carvalho, M.I., & Prada, J. (2014). Study Of Egfr Expression In Canine Mast Cell Tumors: Possible Implications For Therapy. 9th International Conference of Anticancer Research, 6-10 de outubro, Sithonia, Grécia.
 18. Magalhães, P., Gonçalves, A., Pinto, L., Araújo, E., Santos, H., Capelo-Martinez, J., ..., & Igrejas, G. (2014). Identification and sequencing of acetylase expressed from the pMdT1 recombinant plasmid in *Escherichia coli*. TEMPH 2014, 18-21 setembro, Lisbon School of Health Technology, Park of Nations, Lisboa, Portugal, pp. 104.
 19. Malheiro, J., Gomes, I., Borges, A., Abreu, A. C., Mergulhão, F., & Simões, M. (2014). Phytochemicals efficacy against planktonic bacteria and biofilms. 62nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2014), 31 agosto a 4 setembro, University of Minho, Campus de Azurém, Guimarães, Portugal, pp. 297.
 20. Malheiro, J., Gomes, I., Borges, A., Abreu, A. C., Mergulhão, F., & Simões, M. (2014). Cinnamic acid in the control of planktonic and sessile cells of *Escherichia coli* and *Staphylococcus aureus*. III International Conference on Antimicrobial Research (ICAR2014), 1-3 outubro, Madrid, Espanha, pp. 91.
 21. Marinho, C., Silva, N., Santos, T., Madureira, R., Sousa, M., Correia, E., ..., & Poeta, P. (2014). Food spoilage and pathogenic bacteria susceptibility to essential oils and spices. Food Analysis Congress, 29–30 outubro, Barcelona, Espanha.
 22. Marinho, C., Santos, T., Silva, N., Micael, J., Gonçalves, A., Igrejas, G., & Poeta, P. (2014). Marine echinoderms as reservoirs of antimicrobial resistant bacteria. I International Meeting on Marine Research, 10-11 julho, Peniche, Portugal.
 23. Marques, A., Guilherme, S., Gaivão, I., Santos, M.A., Pacheco, M. (2014). Genotoxicity and DNA repair induced by a glyphosate-based herbicide in fish upon exposure and post-exposure periods. XXI Congreso de la Sociedad Española de Mutagénesis Ambiental, 18-20 junho, Pamplona, Espanha.
 24. Marques, R., Vaz, C.V., Maia, C.J., Gomes, M., Gama, A, Alves, G., ... & Socorro, S. (2014). Regucalcin, as a protective molecule in breast cancer: clinicohistopathological and in vivo evidences. 1st ASPIC International Congress. Lisboa, Portugal.
 25. Martins, A., Lima, F., Ribeiro, L., Outor-Monteiro, D., & Pinheiro, V. (2014). Recuperación de peso durante la lactancia de conejas con distintas edades. XXXIX Symposium de Cunicultura de ASESCU, 29-30 maio, Tudela, Espanha.
 26. Mateus, T. L., Ribeiro, J.N., Castro, A., & Vieira-Pinto, M.M. (2014). Limited knowledge about hydatidosis among farmers in Ponte de Lima – Portugal - and its impact in Public Health. III International Congress on Environmental Health, 24 - 26 setembro, Health Sciences School of Polytechnic Institute of Porto, Porto, Portugal.
 27. Mateus, T. L., Vieira-Pinto, M.M., Ribeiro, J.N., & Castro, A. (2014). Environmental contamination by dog feces with zoonotic helminths and human infection risk in Ponte de Lima Portugal. III

International Congress on Environmental Health, 24 - 26 setembro, Health Sciences School of Polytechnic Institute of Porto, Porto, Portugal.

28. Miguéis, S., Barros, A., Coutinho, J., Saraiva, C., & Esteves, A. (2014). Heavy metal contamination of "sashimi" in restaurants from northern Portugal. Symposium on Traceability in Chemical, Food and Nutrition Measurements, National Institute of Health Doutor Ricardo Jorge, Lisboa, Portugal, pp. 31.
29. Monzón, A., Almeida, J., & Pinheiro, V. (2014). El papel formativo y científico de los cercados de reproducción de corzos. RUSI V, 12 setembro, Ciudad Real, Espanha.
30. Moreira, J., Pereira, A.M., Pires, I., Prada, J., Queiroga, F., & Cotovio, M. (2014). Cyclooxygenase-2 expression in Equine cutaneous neoplasms. European Society of Veterinary Oncology Congress, 22-24 de maio, Viena, Austria.
31. Payan-Carreira, R. & Quaresma, M. (2014). Characterization of the estrous cycle during breeding season on Asinina de Miranda donkeys, European Society for Domestic Animal Reproduction Conference, 10-13 de setembro, Scandic Marina Congress Center, Helsínquia, Finlândia.
32. Payan-Carreira, R., Pires, M.A., Nizanski, W., Szczerbal, I., Nowacka-Wozuk, J., & Switonski, M. (2014). Gonadal morphology in sex reversal female dogs (78,XX; SRY-negative). 17th EVSSAR Congress, 26 de setembro, Wrocław, Polónia.
33. Pereira, A. F., Borges, P., Fontbonne, A., Gaivão, I., Martins-Bessa, A. (2014). Sperm analysis in canine benign prostatic hyperplasia: correlations between Comet and routine assays. 17th EVSSAR Congress, 26 setembro, Wrocław, Polónia
34. Pinto, L., Poeta, P., Torres, C., Gil, C., Radhouani, H., Nunes-Miranda, J., ..., & Igrejas, G. (2014). Differential proteomics of antibiotic resistance profiling of *Escherichia coli* from clinical source. 13th Human Proteome Organization World Congress (HUPO 2014), 5-8 de outubro, Madrid, Espanha, pp.151.
35. Pires, I., Gomes, J., Prada, J., Gregório, H., & Queiroga, F.L. (2014). Study of the mechanisms behind COX-2 expression in canine melanocytic tumours. 24th Annual ECVIM-CA Congress, 4-6 de setembro, Mainz, Alemanha.
36. Pires, M.A. & Payan-Carreira, R. (2014). Cystic structures in the canine ovary: a prevalence survey. 17th EVSSAR Congress, 26 setembro, Wrocław, Polónia.
37. Quaresma, M. & Payan-Carreira, R. (2014). Influence of body condition score on triggering anestrus during non-breeding season on Asinina de Miranda donkeys. European Society for Domestic Animal Reproduction Conference, 10-13 de setembro, Scandic Marina Congress Center, Helsínquia, Finlândia.
38. Ramalho, A., Colen, R., Nunes, C., Dias, J., Matos, E., Aires, T., & Rema, P. (2014). A dry process for the enzymatic pre-treatment of plant ingredients: efficacy in gilthead seabream (*Sparus aurata*). Aquaculture Europe 2014 "Adding value", 14-17 outubro, Donostia-San Sebastian, Espanha.
39. Ramos, M.A., Ramos, C., Ozório, P., & Rema, P. (2014). Effect of dietary probiotic dose and treatment duration on growth performance and digestibility in juvenile tilapia (*Oreochromis niloticus*). Practical Nutrition Nutrition and Product Quality ISFN14-1093. Austrália.
40. Ramos, M.A., Ramos, C., Pereira, L.F., Ozório, R., & Rema, P. (2014). Effect of dietary probiotic dose and duration on growth performance and digestibility in juvenile tilapia (*Oreochromis niloticus*). Aquaculture Europe 2014 "Adding value", 14-17 outubro, Donostia-San Sebastian, Espanha.

41. Ramos, M.A., Batista, S., Ramos, C., Ozório, R., & Rema, P. (2014). Effect of dietary probiotic dose and duration on immune and oxidative stress parameters in juvenile tilapia (*Oreochromis niloticus*). LMMR'14. International Meeting on Marine Research, 10-11 julho, Peniche, Portugal.
42. Rema, P., Sardinha, M., Dias, J., Conceição, L., Calheiros, A., & Cunha, M. (2014). Apparent digestibility of variable feed formulations in rainbow trout reared at low water temperature. Aquaculture Europe 2014 "Adding value", 14-17 outubro, Donostia-San Sebastian, Espanha.
43. Rodrigues, H.I., Carvalho, M.I., Pires, I., Prada, J., & Queiroga, F.L. (2014). Apoptosis and proliferation in canine mammary tumors. Esvonc Annual Congress, 22-24 de maio, Viena, Áustria.
44. Rodríguez, R., Gaivão, I., Aguado, L., Espina, M., García-Martínez, J., & María Sierra, L. (2014). The comet assay in *Drosophila*: analysis of in vivo and in vitro repair approaches over MMS induced DNA damage XXI Congreso de la Sociedad Española de Mutagénesis Ambiental, 18-20 junho, Pamplona, Espanha.
45. Santos, T., Capelo, J. L., Oliveira, I., Santos, H. M., Marinho, C., Poeta, P. & Igrejas, G. (2014). Statistical confirmation of MALDI-TOF mass spectra with R and MassUp can be used to distinguish between bacteria. 13th Human Proteome Organization World Congress (HUPO 2014), 5-8 de outubro, Madrid, Espanha, pp. 462.
46. Santos, C., Félix, L., Neves, M., Coimbra, A., Valentim, A.M., Antunes, L., ..., & Pinto, M.L. (2014). Refinement techniques in zebrafish anaesthesia - results from a pilot study. International Conference on Microscopy and Microanalysis, INCOMAM'14, pp. 58.
47. Saraiva, C., Nascimento, P., Moreira, M.J., Silva, A.C., & de Almeida, J .M. M. M. (2014). Padrão deteriorativo de mini-hamburgueses de carne de Gamo (Dama dama) armazenados a 3°C em aerobiose. XX Encontro Luso-Galego de Química, Porto.
48. Saraiva, C., Silva, A.C., Moreira, M.J., Nascimento, P., & de Almeida, J .M. M. M. (2014). Estudo da adulteração de carnes frescas por espectroscopia de infravermelhos e análise quimiométrica. XX Encontro Luso-Galego de Química, Porto.
49. Santos, C., Pires, M.A., Santos, D., & Payan Carreira, R. (2014). Superoxid dismutase and glutathione peroxidase in the canine endometrium. 17th EVSSAR Congress, 26 de setembro, Wroclow, Polónia.
50. Silva, S.R., Santos, V.C., Batista, A.C., Jorge, A.M., Guedes, C.M., & Teixeira, A. (2014). The ability of video image analysis (VIA) to predict carcass composition and cut yields of light lamb carcasses. FAIM III: Third Annual Conference on Body and Carcass Evaluation, Meat Quality, Software and Traceability, 25-26 de setembro, Taastrup, Dinamarca.
51. Silva, S.R., Batista, A.C., Jorge, A.M., Guedes, C.M., Almeida, J.H., Santos, V.C., & Teixeira, A. (2014). Using high resolution images to predict intramuscular fat in lean beef meat. FAIM III: Third Annual Conference on Body and Carcass Evaluation, Meat Quality, Software and Traceability, 25-26 de setembro, Taastrup, Dinamarca.
52. Sousa, M., Silva, N., Madureira, R., Gómez, P., Benito, D., Serra, R., ..., & Poeta, P. (2014). Ecology of antibiotic resistance among staphylococci and enterococci recovered from nasal samples of captive Iberian Lynx (*Lynx pardinus*). 12th Beta-lactamase meeting. International Workshop, 28 junho- 1 julho, University of Gran Canaria, Espanha.
53. Sousa, M., Silva, N., Igrejas, G., Silva, F., Sargo, R., Benito, D., ..., Poeta, P. (2014). Clonal diversity and antibiotic resistance among coagulase-negative staphylococci (CNS) recovered from birds of prey in Portugal. 3rd International Conference on Clinical Microbiology and Microbial Genomics, 24-26 setembro, Valencia, Espanha.

54. Teixeira, A. (2014). New processed products by sheep and goat meat. Workshop Establishing Operational Groups. dip-agri; 02/2014DOI: 10.13140/2.1.1534.5441
55. Vilhena, H., Ceron, J.J., Figueira, A.C., Tvarijonaviciute, A., Tecles, F., Miranda, S., ... Silvestre-Ferreira, A.C. (2014). Oxidative status in feline malignant mammary tumours. European Society of Veterinary Oncology Congress, 22-24 maio, Vienna, Austria.
56. Vilhena, H., Ceron, J.J., Figueira, A.C., Tvarijonaviciute, A., Tecles, F., Miranda, S., ... Silvestre-Ferreira, A.C. (2014). Serum acute phase proteins in feline malignant mammary tumours. 24th European College of Veterinary Internal Medicine – Companion Animals Congress, 4-6 setembro, Mainz, Germany.
57. Vilhena, H., Martins, A., Almeida, P., Ferreira, P., Fonseca, I., Lima, T.,... Silvestre-Ferreira, A.C. (2014). Feline hyperthyroidism in Portugal. 24th European College of Veterinary Internal Medicine – Companion Animals Congress, 4-6 setembro, Mainz, Germany.
58. Valente, L.M.P., Pereira, M., Araújo, M., Sousa-Pinto, I., Brotas, V., Beltrán, C., ..., Rema, P. (2014). Supplementation of tilapia diets with Ulva meal up to 10% increases skin pigmentation without affecting growth performance or flesh quality. Practical Nutrition Nutrition and Product Quality ISFNF14)-1093. Austrália.

Communications in National Meetings

1. Afonso, A. M., Valentim, R., Vila, A. G., Prendes, S. M., Maurício, R., Mendonça, A., ... & Quintas H (2014). Seroprevalência de Mycobacterium avium subspecies paratuberculosis em caprinos de raça Serrana em Portugal. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.
2. Alves, A. (2014). Descrição macro e microscópica das lesões do Aparelho Respiratório. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
3. Alves, A., Oliveira, J., Gama, A., & Pires, I. (2014). Técnica de necropsia em Mamíferos. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
4. Borges, J., Valente, N., & Gaivão, I. (2014). Biodisponibilidade dos compostos da água marítima da Costa Portuguesa na Talassoterapia. VI Jornadas Nacionais de Genética e Biotecnologia, 6-9 de março, UTAD, Vila Real.
5. Carvalho, M., Gaivão, I., & Carnide, V. (2014). Terá o mirtilo um efeito antimutagenotóxico? Um estudo em Drosophila melanogaster. VI Jornadas Nacionais de Genética e Biotecnologia, 6-9 de março, UTAD, Vila Real.
6. Coelho, A. C., Coelho, A. M., Pires, M. A., García-Díez, J., & Pinto, M. L. (2014). Aspetos histopatológicos na detecção de Mycobacterium avium subsp. paratuberculosis em ovinos com sintomatologia Clínica. Workshop em Patologia Veterinária, 24-25 de outubro, UTAD, Vila Real, pp. 55-56.
7. Coelho, A. M., García-Díez, J., Góis, J., Rodrigues, J., & Coelho, A. C. (2014). Práticas de risco em efectivos de pequenos ruminantes positivos à brucelose. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.
8. Coelho, A. M., Pinto, M. L., García-Díez, J., & Coelho, A. C. (2014). Brucelose em pequenos ruminantes: efeito da espécie, composição e aptidão do efectivo. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.

9. Coelho, C., Lopes, A. P., Gomes, J., & Vieira-Pinto, M. (2014). Zoonoses parasitárias transmitidas pelo consumo de carne de javali. XVII Congresso Português de Parasitologia. Faculdade de Farmácia da Universidade de Coimbra, Coimbra.
10. Costa, L. M., Silva, A. I., Geraldo, A. M., & Gaivão, I. (2014). Genotoxic effect of artificial sweeteners in *Drosophila melanogaster* neuroblasts. Jornadas da Biologia, Auditório do Geociências, 22 e 23 de Outubro, UTAD, Vila Real.
11. Dias, C., Ribeiro, E., Martínez-Murcia, A., Fontes, M.C., & Saavedra, M. J. (2014). Identificação filogenética e caracterização fenotípica e genotípica da resistência antimicrobiana em *Aeromonas* isoladas de animais selvagens. VI Congresso de Ciências Veterinárias, Sociedade Portuguesa de Ciências Veterinárias, 3 a 5 de Abril, INIAV, Oeiras, pp. 160.
12. Duarte, S.C., Almeida, A.M., Santos, C., Falcão, A.C., Pena, A., Lino, C.M., & Rocha, H. "Análise de adulteração de queijos DOP e IGP de pequenos ruminantes por imunodifusão", VI Congresso da Sociedade Portuguesa de Ciências Veterinárias VI Congresso de Ciências Veterinárias, Sociedade Portuguesa de Ciências Veterinárias, 3 a 5 de Abril, INIAV, Oeiras,
13. Esteves, A., Carvalho, A., Nazário, N., Ramos, P., & Seixas, F. (2014). Infecção por *Huffmanella* sp. (Nematoda: Trichosomoididae) em azevias *Microchirus azevia* capturadas na costa portuguesa. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real, pp. 61-62.
14. Esteves, A., Oliveira, I., Ramos, P., Carvalho, A., Nazário, N., & Seixas, F. (2014). *Huffmanella* sp. (Nematoda: Trichosomoididae) from *Microchirus azevia* captured off Portuguese coast. XVII Congresso Português de Parasitologia, 20 e 21 de novembro, Faculdade de Farmácia da Faculdade de Coimbra, Portugal, pp. 192-193.
15. Esteves, A. (2014). Sistemas de Alerta da união Europeia: Cooperação das Entidades Europeias. V Jornadas da Ciência Alimentar, 15 de outubro, UTAD, Vila Real.
16. Faria, A.S., Paiva-Cardoso, M.N., Nunes, M., Carreira, T., Vale-Gonçalves, H.M., Veloso, O., ... & Vieira, M.L. (2014). Primeira deteção de DNA de *Borrelia burgdorferi* sensu lato em soro de javali. VIII Jornadas de Biologia, 23 de outubro, UTAD, Vila Real.
17. Gama, A., & Alves, A. (2014). Descrição macro e microscópica das lesões da pele. Workshop em Patologia Veterinária, 24 e 25 de Outubro, UTAD, Vila Real.
18. Gartner, F., Gama, A., & Seixas, F. (2014). Descrição macro e microscópica das lesões da mama da cadela e gata. Workshop em Patologia Veterinária, 24 e 25 de Outubro, UTAD, Vila Real.
19. Lima, C., Ochoa C., Fernandes, A., & Orge, L. (2014) Tromboembolismopulmonar por dirofilariose num cão. VI Congresso Sociedade Portuguesa de Ciências Veterinárias, 3- 5 abril, Oeiras, Portugal.
20. Lima, C., Ochoa C., & Orge, L. (2014) Capilariose em coelhos. VI Congresso Sociedade Portuguesa de Ciências Veterinárias, 3- 5 abril, Oeiras, Portugal.
21. Garcia, M.J., Seixas, F., Saraiva, C., Mota, C.P., & Esteves, A. (2014). Lesões tumorais em reses abatidas em matadouro. Inspeção Sanitária - a problemática das decisões sanitárias. XVI Jornadas da Associação Portuguesa de Buiatria, 16, 17 e 18 de Maio, Arguivai, Póvoa do Varzim, Portugal.
22. Martins, P., Silva, A. I., Magalhães, P., Baptista, A. L., & Gaivão, I. (2014) Lamas Vulcânicas dos Açores. Poderão ser uma aposta na cosmética? VI Jornadas Nacionais de Genética e Biotecnologia, 6-9 de março, UTAD, Vila Real.
23. Matos, A. C., Figueira, L., Santos, M. P., Martins, M. H., Dias, A. P., Morais, M., ..., & Matos, M. (2014). Prevalência da infecção de *Mycobacterium bovis* em quatro famílias de carnívoros

- selvagens em Portugal. VI Jornadas de Genética e Biotecnologia, II Encontro Nacional de Biotecnologia, 6-9 de março, UTAD, Vila Real, pp. 71-72.
24. Matos, A. C., Morais, M., Dias, A. P., Figueira, L., Martins, M. H., Santos, M. P., ..., & Matos, M. (2014). Epidemiologia do Complexo *Mycobacterium avium* em mamíferos selvagens em Portugal. Uma abordagem molecular. VI Jornadas de Genética e Biotecnologia, II Encontro Nacional de Biotecnologia, 6-9 de março, UTAD, Vila Real, pp. 89-90.
 25. Morinha, F., Travassos, P., Carvalho, D., Vale-Gonçalves, H., Bastos, R., Barros, P., ..., & Bastos, E. (2014). Biodiversity, evolutionary, ecological and health assessments for wildlife. VI Jornadas Nacionais de Genética e Biotecnologia e II Encontro Nacional de Estudantes de Biotecnologia, 6-9 de março, UTAD, Vila Real, Portugal.
 26. Moura, D.S., Pires, M.A., & García Díez, J. (2014). Tumor maligno de células da granulosa e adenoma do útero em bovino. Workshop de Patologia Veterinária, 24 e 25 outubro, UTAD, Vila Real, pp 53 e 54.
 27. Ochoa, C., Lima, C., & Orge, L. (2014). Um caso de necrose pancreática aguda no cão. VI congresso Sociedade Portuguesa de Ciências Veterinárias, 3- 5 abril, Oeiras, Portugal.
 28. Ochoa, C., Lima, C., Orge, L., & Lobo, M (2014) Um caso de hérnia diafragmática peritoneopericárdica num cão "Serra da Estrela". VI congresso Sociedade Portuguesa de Ciências Veterinárias, 3- 5 abril, Oeiras, Portugal.
 29. Pinto, M.L., Gama, A., & Seixas, F. (2014) Técnica de necrópsia em repteis e aves. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
 30. Pires, I., & Prada, J. (2014). Crueldade a animais: Uma lei nova para um crime antigo. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
 31. Pires, I., Prada, J., Sargo, T., Machado, J., Fernandes, F., & Alves, A. (2014). Endocardites em canídeos – uma doença subdiagnosticada? Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
 32. Pires, M.A. (2014). Descrições das lesões macro e microscópicas do aparelho genital feminino. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real.
 33. Pires, M.A., & Payan-Carreira, R. (2014). Distúrbios do Desenvolvimento Sexual em Cães: Pontos de Interesse na Caracterização Morfológica. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real, pp 67 e 68.
 34. Pires, M.A., & Payan-Carreira, R. (2014) Estudo Retrospectivo da Prevalência de Estruturas Quísticas no Ovário de Cadela. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD, Vila Real, pp 65 e 66.
 35. Poeta, P. (2014). Bactérias resistentes a antibióticos em Portugal. Antibiotic Day Commemorations, 18-21 novembro, UTAD, Vila Real, Portugal.
 36. Poeta, P. (2014). Inquérito sobre o uso de antibióticos em Portugal. Antibiotic Day Commemorations, 18-21 novembro, UTAD, Vila Real, Portugal.
 37. Poeta, P. (2014). Utilização e consumo de antibióticos em Portugal. Antibiotic Day Commemorations, 18-21 novembro, UTAD, Vila Real, Portugal.
 38. Poeta, P., & Igrejas, G. (2014). Antimicrobial resistance dissemination through the environment. Antibiotic Day Commemorations, 18-21 novembro, UTAD, Vila Real, Portugal.
 39. Quintas, H., Alegria, N., Botelho, A., & Pires, I. (2014). Imagens ecográficas de lesões granulomatosas de tuberculose em caprino. Workshop em Patologia Veterinária, 24 e 25 de outubro, CECAV-UTAD, Vila Real.

40. Quintas, H., Botelho, A., Oliveira, J., Silva, F., Alegria, N., Mendonça, A., & Pires, I. (2014). Comparação entre imagem ecográfica e aspeto macroscópico de lesões de tuberculose num caprino. OVICAPRI – Simpósio de ovinos e caprinos, 14 de novembro, UTAD, Vila Real.
41. Raposo, P., Cabo, A., Silva, S., Azevedo, J., & Santos, V. (2014). Composição da carcaça do “Cordeiro Mirandês/ Canhão Mirandês – DOP”: Efeito do peso da carcaça e do sexo. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.
42. Santos, T., Silva, N., Carvalho, I., Sousa, M., & Poeta, P. (2014). Phenotypical characterization of antimicrobial resistance on *Enterococcus* spp. and *Escherichia coli* from fecal samples of *Equus africanus asinus* of Miranda. V Fórum em Investigação Farmacológica, 23 de outubro, UTAD, Vila Real, Portugal.
43. Saraiva, C., & Silva, D. (2014). Segurança Alimentar em sistemas Cook-chill. Seminário Alimentação Hospitalar inserido no Ciclo de Seminários Nutrição Hospitalar, promovido pela Ordem dos Nutricionistas, com o apoio do centro Hospitalar de Trás-os-Montes e Alto Douro, E.P.E., 4 de junho, Auditório da Unidade Hospitalar de Vila Real.
44. Saraiva, C., Vasconcelos, H., & de Almeida, J. M. M. (2014). Vida útil de salmão armazenado em atmosferas modificadas. VI Congresso de Ciências Veterinárias, Oeiras.
45. Sequeira, A. C., Coelho, A. C., Abreu, R., Alegria, N., Mendonça, A., & Quintas, H. (2014). Diagnóstico de mastite subclínica caprina pelo método do doseamento de Amilóide A no leite. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.
46. Sequeira, A. C., Coelho, A. C., Valentim, R., Alegria, N., Mendonça, A., & Quintas, H. (2014). Comparação da técnica de contagem bacteriana por cultura, teste californiano de mastites e contagem de células somáticas pelo método fluoro-opto-eletrónico em mastites subclínicas em cabras. Ovicapri – Simpósio de Ovinos e Caprinos, 14 de novembro, UTAD, Vila Real.
47. Silva, A. I., Martins, P., Magalhães, P., Baptista, A. L., & Gaivão, I. (2014). Avaliação de Possíveis Efeitos Benéficos para a Saúde de Lamas Vulcânicas dos Açores. VI Jornadas Nacionais de Genética e Biotecnologia, 6-9 de março, UTAD, Vila Real.
48. Tarquini, A.M., Duarte, S.C., Almeida, A.M., Silva, T., Santos, C., Botelho, N., Silva, J.A.F Falcão, A.C., Pena, A., Lino, C.M., & Rocha, H. “Ocorrência de zearalenona em ingredientes e alimentos compostos em suinicultura”, VI Congresso da Sociedade Portuguesa de Ciências Veterinárias VI Congresso de Ciências Veterinárias, Sociedade Portuguesa de Ciências Veterinárias, 3 a 5 de Abril, INIAV, Oeiras.
49. Teixeira, A. (2014). New processed products by sheep and goat meat. Workshop Establishing Operational Groups. dip-agri; 02/2014DOI: 10.13140/2.1.1534.5441
50. Teixeira, R., Vieira, M.J., Ribeiro, M.J., Gonçalves, L., & Gersh, B. (2014). Coronary artery bypass grafting history and acute coronary syndromes, meta-analysis. Congresso Português de Cardiologia. C66 - ID 2979, Portugal.
51. Vieira, M.J., Teixeira, R. & Gonçalves, L. (2014). Mecânica Auricular Esquerda: Avaliação Ecocardiográfica e Implicações Clínicas. Congresso Nacional do Interno de Ano Comum, Covilhã, Portugal.
52. Valente, N., Borges, J., Baptista, A., & Gaivão, I. (2014). Benefits of Thalassotherapy in the Portuguese Coast: a study in *Drosophila melanogaster*. Annual Portuguese *Drosophila* Meeting, 5-6 de setembro, Hotel dos Templários, Tomar.
53. Viana, N., Pires, C., & Simões, J. (2014). Implementação e análise económica de uma exploração de cabras de aptidão leiteira, em sistema de produção integrada, na região norte de Portugal:

uma visão da realidade. Simpósio de ovinos e caprinos – OVICAPRI, 14 de novembro, UTAD, Vila Real.

54. Vala, H., & Pires, M.A. (2014). Recolha e envio de material para o laboratório de anatomia patológica. Workshop em Patologia Veterinária, 24 e 25 de outubro, UTAD; Vila Real.

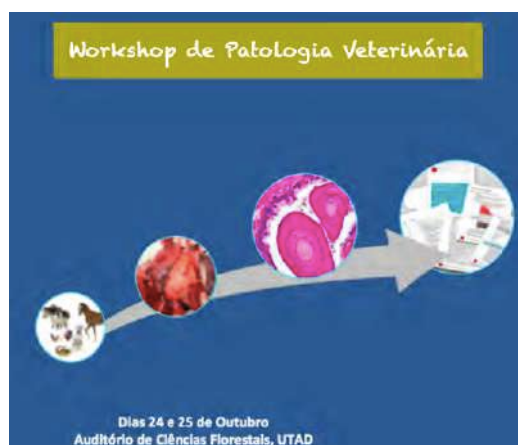
Organization of scientific and technical events

Organized by CECAV



“Gestão e utilização de referências bibliográficas”, Open seminar organized by CECAV board. Included a practical training workshop directed to CECAV members in particular to PhD students. January the 30th.

“Workshop em Patologia Veterinária”, organized by the Clinical Pathology Group. Included a practical, hands-on workshop práctico on necropsy. October the 24th & 25th, UTAD; Vila Real.



"Segurança sanitária em enchidos tradicionais portugueses" – Seminar organised under project PTDC/AGRALI/119075/2010 - "Salsicharia tradicional portuguesa: Estratégias para a melhoria da segurança e qualidade". December the 15th, UTAD; Vila Real.

Other outreach activities

Ciência Viva

Estágio: 3176. Os fungos na interface da medicina humana e veterinária: a importância do laboratório. 30-06-2014 a 04-07-2014 (Oferta de 2 lugares no estágio).

Estágio: 3186. Qualidade microbiológica das águas de aquacultura - 30-06-2014 a 04-07-2014 (Oferta de 2 lugares no estágio).

Estágio: 3325. Contribuição para o estudo de parâmetros hematológicos e bioquímicos em modelos animais de carcinogénese química - 23-06-2014 a 27-06-2014 (Oferta de 2 lugares no estágio).

Estágio: 3187. Plantas aromáticas e medicinais, potencial antimicrobiano: alternativa aos antibióticos - 30-06-2014 a 04-07-2014 (Oferta de 2 lugares no estágio).

Atividades Científicas na Escola

Ação 20- Um olhar sobre a multirresistência bacteriana: um problema de Saúde Pública

Ação 22- U Vamos conhecer a qualidade da água - análise microbiológica

Advanced training

Doctoral Thesis

1. Carla Sofia Correia Gomes. "Salmonella in swine in Portugal: characterization of risk factors and modelling infection". PhD/Doctorate in Veterinary Sciences - ICBAS – Univ. Porto. Advisors: João José Rato Niza Ribeiro - ICBAS UP & Maria Madalena Vieira Pinto – CECAV-UTAD. [Grant fellowship ref: SFRH/BD/40932/2007]
2. Alexandra Fradeira Gonçalves. "Antibiotic resistance in gastrointestinal bacteria isolated from the Iberian Lynx and Iberian Wolf species conservation and public health concerns". PhD/Doctorate in Comparative and Technological Molecular Genetics. Advisors: Patricia Poeta. [Grant fellowship ref: SFRH/BD/47833/2008]

Master of Sciences Thesis

1. Alexandra Teixeira Anjos. "Avaliação da utilização do lasercyte nas contagens celulares em lavagem bronco-alveolar de equinos-estudo preliminar". MSc. in Veterinary Medicine - UTAD. Advisor: Cristina Silvestre Ferreira
2. Alexandre Nande Lourenço Rodrigues. "Bem-estar em suínos abatidos em matadouro. Aplicação do protocolo welfare quality". MSc. in Veterinary Medicine - UTAD. Advisors: Maria Madalena Vieira-Pinto (CECAV-UTAD) & António Dalmau (IRTA, Spain).
3. Ana Filipa Leal Ramos Pereira. "Análise espermática de cães com hiperplasia benigna da próstata: relação entre técnicas de rotina e o ensaio cometa". MSc. in Veterinary Medicine - UTAD. Advisors: Ana Celeste Bessa & Isabel Gaivão
4. Ana Filipa Loureiro Pereira. "Infeção bacteriana do trato urinário do cão e gato: aspetos clínico-epidemiológicos". MSc. in Veterinary Medicine - UTAD. Advisors: Ana Cláudia Coelho (CECAV – UTAD) & Márcio Garcia Ribeiro (Faculdade de Medicina Veterinária e Zootecnia da UNESP, São Paulo, Brasil)
5. Ana Filipa Pereira Afonso. "Efeito da fermentação com lactobacillus sakei produtores de antagonismo no controlo de listeria monocytogenes e salmonella spp. em chouriço de vinho". MSc. in Biotechnology and Food Quality - UTAD. Advisor: Luis Patarata

6. Ana Luisa Fernandes Pinto. "Efeito combinado da utilização de bactérias do ácido láctico e vinho no controlo da microflora patogénica em enchidos secos crus". MSc. in Biotechnology and Food Quality - UTAD. Advisor: Luis Patarata
7. Ana Margarida Amaral Sequeira. "Diagnóstico de mastites subclínicas em caprinos". MSc. in Veterinary Medicine - UTAD. Advisors: Ana Cláudia Coelho (CECAV, UTAD) & Hélder Quintas (OPP de Macedo de Cavaleiros).
8. Ana Margarida Freitas Pinto. "Efeito do tratamento de folhas de oliveira (olea europa l.) Com fungos da podridão branca e sua incorporação em dietas de coelho em crescimento". MSc. in Zootechnics Engineering - UTAD. Advisors: Victor Pinheiro & Miguel Rodrigues
9. Ana Patrícia Araújo Dias. "Rastreio de agentes infecciosos em linfadenite granulomatosa de animais selvagens". MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Ana Cláudia Coelho (CECAV, UTAD) & Maria Manuela Matos (CGB,UTAD).
10. Ana Patrícia Araújo Dias. "Rastreio de agentes infecciosos em linfadenite granulomatosa de animais selvagens". MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Ana Cláudia Coelho.
11. Ana Raquel Santos. "Avaliação da actividade genotóxica/antigenotóxica de plantas medicinais obtidas in vitro e ex vitro". MSc. in Comparative and Technological Molecular Genetics – UTAD. Advisor: Isabel Gaivão.
12. André Barros Vinhas. "Seroprevalência de theileria equi em portugal". MSc. in Veterinary Medicine - UTAD. Advisors: Mario Pedro Cotovio & Luis Lucas Cardoso.
13. Anabela Márcia Gomes Gonçalves. "Modelos lineares de previsão da composição corporal e da carcaça in vivo de raças e espécies diferentes de ovinos e caprinos, usando dados de ultrassonografia e pesos corporais e da carcaça". MSc. in Technologies in Animal Science – ESA, IPB. Advisor: Alfredo Teixeira (CECAV)
14. Aristides de Jesus António Manuel. "Caracterização da qualidade físico-química de pernas curadas de carne ovina e caprina". MSc. in Technologies in Animal Science – ESA, IPB. Advisor: Alfredo Teixeira (CECAV)
15. Brigitte Gomes Denis. "Avaliação da eficácia de medidas para o controlo de Salmonella spp. e E. Coli 0157:H7 na preparação de francesinhas". MSc. in Food Safety - UTAD. Advisor: Luis Patarata
16. Carla Sílvia dos Santos Pires. "Resistência a carbapenems em infeções associadas aos cuidados de saúde: estudo longitudinal em 10 anos". MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Maria José Saavedra
17. Cathy Alves Paranhos. "Neoplasias cutâneas caninas. Um estudo descritivo de 4 anos". MSc. in Veterinary Medicine - UTAD. Advisor: Adelina Maria Gaspar Gama Quaresma
18. Cátia Isabel Calado Dos Santos. "Avaliação microbiológica de sashimi. Microbiota deteriorativa e patogénica". MSc. in Food Safety - UTAD. Advisors: Alexandra Esteves & Cristina Saraiva.
19. Carla Maria Lopes de Azevedo. "Avaliação do efeito de três protocolos hormonais de sincronização da ovulação na eficiência reprodutiva de vacas de alta produção em explorações leiteiras do norte de Portugal". MSc. in Veterinary Medicine - UTAD. Advisors: João Simões & Nuno Canada (ICBAS, UP).
20. Damilton Rodrigues António. "Importância da transformação da carne de suíno e processamento de produtos curados". MSc. in Technologies in Animal Science – ESA, IPB. Advisor: Alfredo Teixeira (CECAV).
21. Filipa Margarida Amaral Fontinha. "Localização de TNF alfa e caspase 3 em endométrio de gata no ciclo e no carcinoma do endométrio". MSc. in Clinical Laboratorial Biology - UTAD. Advisors: Maria dos Anjos Pires & Rita Payan Carreira.

22. Filipe Eduardo Gonçalves Carrasqueira . “Avaliação do nível de conhecimento, práticas e atitudes auto-referidas sobre a segurança alimentar, dos manipuladores de alimentos: um estudo transversal no sector da restauração comercial e social das sub-regiões do Douro e alto tâmega de Portugal”. MSc. in Food Safety - UTAD. Advisors: Ana Claudia Coelho & Alexandra Esteves.
23. Francisco José Agostinho da Silva dos Santos. “Plano de aprovação e controlo dos estabelecimentos (PACE)”. MSc. in Food Safety - UTAD. Advisors: Maria Madalena Vieira Pinto
24. Guida Eduarda Martins Eiras. “Factores que interferem na qualidade do leite”. MSc. in Technologies in Animal Science – ESA, IPB. Advisor: Alfredo Teixeira (CECAV)
25. Hélder Manuel Gomes da Costa. “Avaliação da qualidade da carcaça de suínos da raça Bísara”. MSc. in Technologies in Animal Science – ESA, IPB. Advisor: Alfredo Teixeira (CECAV)
26. Helena Catarina Araújo Soares Guedes Vasconcelos. “Evaluation of salmon and chicken freshness using microbiological, sensory and spectroscopic methodologies. Influence of temperature and packaging atmosphere on shelf-life”. MSc. in Food Safety - UTAD. Advisors: Cristina Saraiva e José Manuel Almeida.
27. Helena Isabel de Sousa Rodrigues. “Pesquisa de biomarcadores com potencial terapêutico nos tumores mamários da cadela: relevância da COX-2, Ki-67 e Caspase-3”. MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Isabel Pires.
28. Hélia Marisa do Vale Gonçalves. “Análise e previsão da ocorrência de leptospirose em javalis (*Sus scrofa* Linnaeus, 1758) na região de Trás-os-Montes. MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Maria Das Neves Cardoso.
29. Isabel Gonçalves Portela. “Efeitos da utilização dos ácidos fórmico e/ou propiónico na água de bebida sob as performances e características digestivas de coelhos em crescimento”. MSc. in Zootechics - UTAD. Advisors: Vitor Pinheiro & Divanildo Monteiro
30. Isabel Maria Stella Da Silva. “Anasarca fetal no bulldog inglês: efeitos da alimentação na cadela grávida”. MSc. in Veterinary Medicine - UTAD. Advisor: Rita Payan Carreira.
31. Joana Cristina da Costa Alheiro. “Avaliação do efeito antimicrobiano de óleos essenciais sobre microrganismos patogénicos e fermentativos associados à produção de chouriço de vinho”. MSc. in Biotechnology and Food Quality - UTAD. Advisor: Luis Patarata
32. Joana Luís Dos Santos Monteiro. “Monitorização de corpos cetónicos no sangue de vacas no púrpuro: preditores da prevalência de doenças no pós-parto”. MSc. in Veterinary Medicine - UTAD. Advisors: Rita Payan Carreira & Miguel Quaresma.
33. João António Salgueiro Pereira Agostinho. “Torção uterina em vacas na ilha de São Miguel”. MSc. in Veterinary Medicine - UTAD. Advisor: Rita Payan Carreira.
34. João Filipe Ferreira Tomás. Estudo hemoparasitológico em peneireiro-vulgar (*Falco tinnunculus*) e coruja-do-mato (*Strix aluco*) do centro de recuperação de fauna silvestre de Torreferrussa (Barcelona, Espanha). MSc. in Veterinary Medicine - UTAD. Advisor: Luis Lucas Cardoso.
35. Liliana Cardoso Fernandes. “Fatores que contribuem para a ocorrência de defeitos de superfície e na sobrevivência de *Salmonella* spp. em chouriço de carne”. MSc. in Food Safety - UTAD. Advisor: Luis Patarata
36. Luís Miguel da Costa Pimenta. “Prevalência da febre Q em explorações de bovinos leiteiros no Concelho de Barcelos (Portugal)”. MSc. in Veterinary Medicine - UTAD. Advisors: João Simões & Nuno Alegria.

37. Mafalda da Cunha Correia de Sá. “Concentração plasmática de adenosina em cães: potencial aplicabilidade no diagnóstico da insuficiência cardíaca”. MSc. in Veterinary Medicine - UTAD. Advisor: Ana Cristina Ferreira
38. Márcia Rodrigues Morais. “Estudo da infeção microbactérias não tuberculosas em animais selvagens”. MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Ana Cláudia Correia Coelho.
39. Maria Da Conceição Costa Mota. “Avaliação microbiológica de carne de codorniz”. MSc. in Food Safety - UTAD. Advisors: Maria da Conceição Fontes & Alexandra Esteves.
40. Mariana Dantas De Brito Almeida. “Avaliação do temperamento de ovelhas das raças ile-de-france e churra da terra quente. Respostas do comportamento e do nível de cortisol num teste de arena”. MSc. in Zootechics - UTAD. Advisor: Severiano Silva.
41. Marisa Sofia Silva Pereira. “Vida útil de massa de alheira – influência da temperatura e tipo de embalagem na conservação de massa de alheira: parâmetros microbiológicos e físico-químicos”. MSc. in Food Safety - UTAD. Advisors: Alexandra Esteves & Cristina Saraiva.
42. Marlene Patrícia Alves dos Santos. “Epidemiologia molecular de mycobacterium bovis em mamíferos selvagens e estudo da sua diversidade genética através de marcadores moleculares”. MSc. in Biotecnology for Health Sciences - UTAD. Advisor: Ana Cláudia Coelho.
43. Miguel Jorge Camacho Oliveira. “Gestão de parques naturais – intervenção médico-veterinária”. MSc. in Veterinary Medicine - UTAD. Advisor: José Manuel Almeida
44. Moisés Leitão Gonçalves. “Efeito de pressão negativa no congelamento de sémen ovino”. MSc. in Veterinary Medicine - UTAD. Advisors: Rita Payan Carreira (CECAV, UTAD) & Prof. Alceu Mezzalira (Univ. do Estado de Santa Catarina).
45. Octávia Manuela Ferreira Veloso. “Estudo e previsão da presença de anticorpos anti-brucella em javalis (*Sus scrofa*) na região de Trás-os-Montes”. MSc. in Clinical Laboratorial Biology - UTAD. Advisor: Maria Das Neves Cardoso
46. Pedro Filipe Ferreira Martins Carvalho da Silva. “Indicadores de deteriorização, comportamento de listeria monocytogenes e definição de parâmetros de pasteurização em morcela de arroz”. MSc. in Food Safety - UTAD. Advisor: Luis Patarata
47. Ricardo André Ramos Marcos. “Avaliação de factores de risco no diagnóstico de cetose subclínica em bovinos leiteiros na Ilha de São Miguel –Açores”. MSc. in Veterinary Medicine - UTAD. Advisor: João Simões.
48. Rosana Manuela Madureira da Silva. “Avaliação da atividade antimicrobiana de condimentos portugueses e óleos essenciais de plantas aromáticas frente a bactérias”. MSc. in Food Safety - UTAD. Advisor: Patricia Poeta
49. Rui André Dias da Costa. “Ocorrência de Enterobacteriacease, E. Coli e E. Coli 0157 em pele e em carcaças de suínos abatidos em matadouro”. MSc. in Food Safety - UTAD. Advisor: Maria Madalena Vieira Pinto
50. Sara Filipa de Sousa Soares. “Avaliação de parâmetros de segurança alimentar em estabelecimentos de restauração e bebidas - implementação de pré-requisitos”. MSc. in Food Safety - UTAD. Advisor: Cristina Saraiva.
51. Sara Joana Jegundo de Melo. “Mortalidade embrio-fetal de origem não infecciosa até aos 90 dias de gestação: estudo retrospectivo em duas explorações na região de Ourense”. MSc. in Veterinary Medicine - UTAD. Advisor: Rita Payan Carreira.
52. Sara Soares. “Avaliação de parâmetros de segurança alimentar em estabelecimentos de restauração e bebidas – autocontrolo e microbiologia preditiva”. MSc. in Food Safety - UTAD. Advisor: Cristina Saraiva (CECAV, UTAD) & Irene Oliveira.

53. Sílvia Emanuela Pereira Braga. Caracterização do leite de cerva ibérica (*Cervus elaphus hispanicus*). Efeito da idade e número de parto na produção e composição do leite. MSc. in Zootechics - UTAD. Advisor: Vitor Pinheiro.
54. Sílvia Martinha Vasconcelos. “A toxinfecção estafilocócica: contagem de microrganismos e pesquisa de enterotoxinas em produtos alimentares”. MSc. in Veterinary Medicine - UTAD. Advisor: Cristina Saraiva.
55. Sónia Vilar Gomes De Sá. “Análise citológica vs histopatológica no diagnóstico de tumores de canídeos”. MSc. in Veterinary Medicine - UTAD. Advisor: Adelina Gama.
56. Susana Isabel Ferreira Guedes Pombo. “Comunicação de risco – estudo de caso: análise de risco de dioxinas em produtos avícolas”. MSc. in Veterinary Medicine - UTAD. Advisors: Maria Madalena Vieira-Pinto (CECAV, UTAD) & Maria Luísa Pedroso de Lima (ISCTE, IUL).
57. Vanessa Iolanda Fonseca Nascimento Ferreira da Silva. “Ocorrência de *Salmonella* spp. e Enterobacteriaceae em carcaças e pele de suínos abatidos em matadouro”. MSc. in Food Safety - UTAD. Advisor: Maria Madalena Vieira Pinto.

Final graduation training

1. Patrícia Nascimento. “Avaliação da deterioração de carne fresca por métodos microbiológicos, físico-químicos e sensoriais”. Final graduation report in Food Sciences - UTAD. Advisor: Cristina Saraiva.
2. Ana Catarina Silva. “Estudo da adulteração de carne fresca por métodos espectroscópicos, microbiológicos, físico-químicos e sensoriais”. Final graduation report in Food Sciences - UTAD. Advisors: Cristina Saraiva & José Manuel de Almeida.
3. Fabiana Quintas. “Avaliação do perfil de multiplicação de *Listeria monocytogenes* a diferentes concentrações em atum”. ”. Final graduation report in Food Sciences - UTAD. Advisors: Alexandra Esteves e Cristina Saraiva.
4. Daniela Sousa Cruz. “Performances e comportamento de coelhos em crescimento alojados em jaulas enriquecidas” ”. Final graduation report in Biology - UTAD. Advisor: Victor Pinheiro.

International Research Internship

1. Laura Cristina Pachón Meza (Universidad Colegio Mayor de Cundinamarca, Colombia) – 1 semester (starting in September 1st)
2. María Alejandra Prieto Martinez (Universidad Colegio Mayor de Cundinamarca, Colombia) – 1 semester (starting in September 1st)
3. Geraldine Adrienne Ponson (University of Applied sciences – Hogeschool-, Leiden, Netherlands) – 3 months (starting in September 1st).

