



Annual Report of Activities 2022



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Description of the research unit

The Veterinary and Animal Science Research Centre (CECAV), hosted in the University of Trás-os-Montes and Alto Douro (UTAD), is a National Research Unit funded by the Portuguese National Agency for Science, Research and Technology (FCT).

Since 2021, CECAV has been part of the Associated Laboratory of Animal Science and Veterinary Science (AL4AnimalS) together with CECA (Centre of the Studies on Animal Science; Oporto) and CIISA (Centre for Interdisciplinary Research in Animal Health, Lisbon).

The main objective of CECAV is to develop research in animal and veterinary science to generate new knowledge in animal health and welfare and in the production, safety and quality of meat and meat products. To achieve this objective, its activity focuses on the following main research topics:

- a) Integrated Meat Quality in an approach “From the field to the fork”

Integrated Meat Quality whose main objectives are (1) to develop research focused on the use of *in vivo* non-invasive techniques as tools to evaluate body composition and to estimate carcass composition and quality of farm animal species, and (2) to assess factors that may affect sensory and chemical characteristics of meat and meat products and evaluate strategies (e.g. packing, natural additives) to control spoilage and pathogenic microflora;

- b) Veterinary Public Health under the “One Health concept”

The research in Veterinary Public Health is focused on two interrelated topics: (1) diagnostic and prognostic of factors related to biological issues and the use of biomaterials for tissues regeneration, using animal models and contributing to animal and human health and welfare, and (2) the study of prevalence and integrative epidemiological studies on zoonosis affecting animals and foodborne pathogens from food of animal origin and contributing to their monitoring and to the evaluation of strategies for its mitigation.

The organization of CECAV is included in the regulation published in the Portuguese official journal (Diário da República, 2nd Serie, nº36, 20th February 2012).

The governing bodies of CECAV are:

- The Scientific Council (SC);

The Scientific Council is composed of all integrated members and meets regularly (3 or 4 times a year). In addition to the main competencies contained in its regulation, the Scientific Council promotes internal cooperation, fosters dialogue and the exchange of ideas

- The Director,

The Director is elected by the Scientific Council every three years and among his competences is the choice of the Executive Board.

- The Executive Board (Directive board)

The Directive Board is composed of the Director and three Vice-Directors. Besides ensuring the administrative and financial management of CECAV, its main activities are to prepare the documents to submit to the Scientific Council for approval and propose to the Scientific Council the allocation of financial resources to the different research activities and topics of CECAV.

Following the regulations of FCT, CECAV has an External Advisory Committee, composed of three experts in the scientific areas of CECAV: José Lorenzo Rodrigues (Technological Meat Centre, Orense, Spain) and Laura Peña (Complutense University of Madrid, Spain). They are expected to visit CECAV twice or three times during 2020-2023.

In 2022, CECAV includes 61 integrated members (51 researchers from UTAD, 6 researchers from institutions outside UTAD, 3 postdoctoral members with a scholarship and 1 Junior Research hired in March 2022). CECAV also has 13 doctors as collaborators and 41 PhD students, 15 of them are scholarship holders.

List of integrated members in 2022

Adelina Maria Gaspar Gama Quaresma
Alexandra Sofia Miguens Fidalgo Esteves
Ana Celeste Andrade Martins de Carvalho Bessa
Ana Cláudia Correia Coelho
Ana Cristina Silvestre Ferreira
Ana Luisa Guimarães Dias Lourenço
Ana Margarida Calado
Ana Patrícia Antunes Lopes
Ana Paula Portela Álvaro Santana
Ana Sofia Soares
Anabela Gouveia Antunes Alves
Ângela Maria Ferreira Martins
António Mário Domingues Silvestre
Artur Severo Proença Varejão
Bruno Jorge Antunes Colaço
Carlos Alberto Antunes Viegas
Catarina Manuela Almeida Coelho
Cristina Maria Teixeira Saraiva
Cristina Vitória de Miranda Guedes
Divanildo Outor Monteiro
Felisbina Luísa Guedes Queiroga
Fernanda Aurora Gomes de Seixas Travassos
Filipa Cristina Teixeira de Sousa Rodrigues
Filipe da Costa Silva
Hugo Corte-Real Vilhena
Isabel Cristina Ribeiro Pires
Isabel O'Neill de Mascarenhas Gaivão
Jackson Suelio de Vasconcelos
João Carlos Caetano Simões
João Filipe Martins Freire Requicha
João Manuel Cardoso Martins
Joaquim Orlando Lima Cerqueira
Jorge Manuel Teixeira de Azevedo
Jorge Cláudio da Costa Pereira
José António de Oliveira e Silva
José Carlos Leitão Portugal Nunes
José Eduardo Teixeira Pereira
José Luis Teixeira de medeiros Mourão
José Manuel de Melo Henriques Almeida
Juan Garcia Díez

Justina Maria Prada Oliveira
Luis Miguel Martins Lucas Cardoso
Luis Miguel Viana Maltez da Costa
Luis Avelino da Silva Coutinho Patarata
Maria da Conceição Medeiros Castro Fontes
Maria de Lurdes Ribeiro Pinto
Maria dos Anjos Clemente Pires
Maria Isabel Maria Ribeiro Dias
Maria Leonor dos Santos Orge
Maria Madalena Vieira Pinto
Maria Sofia Alves Pimenta
Mariana Dantas Brito Almeida
Mário Manuel Dias Ginja
Mario Pedro Gonçalves Cotovio
Miguel Nuno Pinheiro Quaresma
Patrícia Alexandra Curado Quintas Diniz Poeta
Severiano Cruz da Rocha e Silva
Sónia da Conceição Teixeira Saraiva
Teresa Susana Letra Mateus
Victor Manuel Carvalho Pinheiro
Virgínia Alice Cruz dos Santos

The criterion required to be an integrated member of CECAV is based on its scientific productivity in the former three years. Criteria for distribution of the FCT base funding are also centred on the scientific productivity of the researchers, which is scored/graded according to the number, type (book and book chapter, full paper, review article, short note/short communication, case report, letter) and quality (quartile in category) of the manuscripts published on international peer reviewed journals (SCOPUS or ISI).

The facilities of CECAV are located at UTAD, mainly at the School of Veterinary and Agrarian Sciences (ECAV) and includes several laboratories and experimental animal facilities. The main laboratories that support the research activity of CECAV are: Laboratory of Technology, Quality and Food Safety (LQSA), Laboratory of Histopathology and Veterinary Pathological Anatomy (LHAP), Laboratory of Parasitology, Laboratory of Medical Microbiology, Laboratory of Animal Nutrition (LabNut) and Laboratory of Reproduction. The animal experimental facilities include an Experimental Unit for the Study of Carcasses and Meat, the Experimental Facilities of Animal Nutrition (Experimental Unit Arnaldo Dias da Silva), the Hunting Studies Centre and several experimental facilities of animal production. The Veterinary Hospital of UTAD (HV-UTAD) and the Wildlife Recovery Centre (CRAS) are also an important structure for the scientific activity of CECAV researchers and students.

The CECAV was granted 533,000 euros over four years as basal financing and 355 000 Euros as programmatic financing. In addition, the research projects running at CECAV also had external financing of 524,240 euros from financed projects. The detailed information about these projects is presented in the “Funded projects and thematic networks” section.

Scientific activity

The following aspects guide the CECAV activities:

(1) to promote research with impact in the animal and veterinary sciences field, through the participation in research projects and thematic networks and by the cooperation with other national and international institutions;

(2) to disseminate knowledge through the organization and/or the participation of scientific events and by the publication of articles in a top-ranking scientific journal;

(3) to develop post-graduation formation by supporting the 3rd cycle of Animal Science and the 3rd cycle of Veterinary Science.

(4) to promote the transfer of knowledge to stakeholders and society.

The main scientific activities of CECAV during 2022 are listed below and include:

Financial projects and networks,

Publications,

Formation, and

Events (participation and organization).

Financed projects and networks

In 2022, CECAV researchers were involved as members of the team of 11 research projects and 6 Cost Actions. Almost all of the projects were in collaboration with other universities or research institutions, mainly in the area of animal production, animal health and meat quality and safety.

A list of the ongoing projects and networks is presented below. These projects are listed in alphabetic order:

AgriFoods XXI – Development and Consolidation of research in the AgriFood sector in Northern Portugal

Funding source: FEDER, through the Operational Program NORTE 2020

Total funding: 2 353 869,65€

Funding for CECAV/UTAD: 132 000€

Leading institution: CQ-VR/UTAD

Period: 2020-2023.

AptaColi – NAM-aptameros para bloqueio de enterotoxinas na colibacilose em porcos.

Funding source: FEDER, through the Operational Program NORTE 2020

Total funding: 1 500 000€

Funding for CECAV/UTAD: 49 907,50€

Leading institution: INIAV

Period: 2020-2024.

Bis+Olive - Use of olive pomace in the feeding of Bísaro pigs. Evaluation of the effect on growth and meat quality. Co-promotion project.

Funding source: FEDER, through the Operational Program NORTE 2020

Total funding: 592 302,40€

Funding for CECAV/UTAD: 132 852,96€

Leading institution: BISARO – Salsicharia tradicional

Period: 2021-2023.

C3C - caça–capacitação, competitividade e comunicação.

Funding source: Fundo Florestal Permanente

Total funding: 199 040,00 €

Leading institution: Clube Português de Monteiros

Period: 2021-2022.

COST Action CA16230 - Combatting anthelmintic resistance in ruminants (COMBAR).

Funding source: H2020 COST-Action

Period: 2018-2022.

COST Action CA18105 - Risk-based meat inspection and integrated meat safety assurance (RIBMINS).

Funding source: H2020 COST-Action

Period: 2019-2023.

COST Action CA18113. Understanding and exploiting the impact of low pH on micro-organisms (EuroMicroPh).

Funding source: H2020 COST-Action

Period 2019–2023.

COST Action CA18217. European Network for Optimization of Veterinary Antimicrobial Treatment (ENOVAT).

Funding source: H2020 COST-Action

Period: 2019–2023.

COST Action CA21111 – One Health drugs against parasitic vector borne diseases in Europe and beyond (OneHealthdrugs)

Funding source: H2020 COST-Action

Period: 2022-2026.

COST Action CA21145. European Network for diagnosis and treatment of antibiotic-resistant bacterial infections (EURESTOP).

Funding source: H2020 COST-Action

Period 2022 – 2026.

Determinação do perfil tiroideo em Lince Ibérico.

Funding source: Empresa farmacêutica IDEXX Global, USA.

Total funding CECAV/UTAD: 3500 Euros.

Period: 9/2021-5/2022

Effect of EPA and DHA supplementation on renal function biomarkers and systolic blood pressure of proteinuric and borderline proteinuric cats diagnosed with chronic kidney disease

Funding source: EveryCat Health Foundation Feline Kidney Disease Fund

Total funding: \$33,942 USD

Funding for CECAV/UTAD: \$33,942 USD

Leading institution: CECAV/UTAD

Period 2022-2024.

Manual do Pastor 4.0.

Funding source: PDR2020

Financiamento CECAV/UTAD: 19 493€

Leading institution: Comunidade Intermunicipal do Tâmega e Sousa.

Period: 2019-2022.

oneHCancer – One Health approach in animal cancer

Funding source: FEDER, through the Operational Program NORTE 2020

Total funding: 499.999,99€

Funding for CECAV/UTAD: 330 000€

Leading institution: CECAV/UTAD

Period: 2021-2023.

Preservar a qualidade na Carne Arouquesa

Funding: FEDER, through the Operational Program NORTE 2020

Total funding: 331.504,32€

Funding for UTAD: 227.178,56€

Leading institution: UTAD

Período de trabalho: 2017-2022.

SUSPHAGE - Development of a phage-based product to control. E. coli associated post-weaning diarrhea in piglets, Projeto em copromoção

Funding source: COMPETE 2020, Portugal 2020, FEDER

Total funding: 695 097€

Funding for CECAV/UTAD: 154 466,15€

Leading institution: CEB (Centre of Biological Engineering)

Period: 2018-2022.

TraDACa – Diagnóstico e tratamento da displasia da anca no Cão

Funding source: FEDER, COMPETE 2020

Total funding: 418.360,24€

Funding for CECAV/UTAD: 289.043,48€

Leading institution: UTAD

Period: 2021-2023.

Wasting Prion Risk - Chronic Wasting Disease Risk Assessment in Portugal

Funding source: FCT - Fundação para a Ciência e a Tecnologia (Compete 2020, PT2020) e FEDER -

Fundo Europeu de Desenvolvimento Regional

Total funding: 239.898,90 €

Funding for CECAV/UTAD: 201 772€

Leading institution: CECAV/UTAD

Period: 2018-2022.

Publications

During 2022, CECAV researchers published 147 articles in international peer review journals (142 referenced in Scopus), including full papers (113), reviews (18), short report/short communications (7), case reports and letters (4). Most of them (90%) were published in Q1 or Q2 journals.

In 2022, 1 book and 6 chapters of international books were published (including 4 referred in Scopus).

Technical-scientific publications (4 books/boo chapters and 15 articles in journals) are also listed, mainly in Portuguese, which are an important way of transmitting knowledge to society.

In the lists below, the CECAV members are underlined.

International journals with peer-review

Articles

- 1 [Abrantes, A.C.](#), [Serejo, J.](#), [Vieira-Pinto, M.](#) 2022. Drought as a risk factor to the occurrence of tuberculosis-like lesions detected during red deer post-mortem inspection: a pilot study. *REDVET - Revista Electronica de Veterinaria*, Volume 23, Nº2, pp. 1–6, March 2022, Q4.
- 2 [Afonso, J.](#), [Guedes, C.](#), [Teixeira, A.](#), [Rema, P.](#), [Silva, S.](#) 2022. In vivo ultrasound prediction of the fillet volume in Senegalese Sole (*Solea senegalensis*). *Animals*, Open Access, Volume 12, Nº18, Article 2357, September 2022, Q1. doi10.3390/ani12182357
- 3 [Alban, L.](#), [Vieira-Pinto, M.](#), [Meemke, D.](#), [Maurer, P.](#), [Ghidini, S.](#), [Santos, S.](#), [Laguna, J.G.](#), [Laukkanen-Ninios, R.](#) [Alvseike, O.](#), [Langkabel, N.](#) 2022. Differences in code terminology and frequency of findings in meat inspection of finishing pigs in seven European countries. *Food Control*, Open Access, Volume 132, Article 108394, February 2022, Q1. doi10.1016/j.foodcont.2021.108394
- 4 [Almeida, M.](#), [Garcia-Santos, S.](#), [Carlotto, D.](#), [Arantes, A.](#), [Lorenzo, J.M.](#), [Silva, J.A.](#), [Santos, V.](#), [Azevedo, J.](#), [Guedes, C.](#), [Ferreira, L.M.](#), [Silva, S.](#) 2022. Introducing Mediterranean lupins in lamb diets: effects on carcass composition, meat quality and intramuscular fatty acid profile. *Animals*, Special Issue “Novel Feed Ingredients: Improving Health Status, Milk and Meat Quality in Small Ruminants”, Open Access, Volume 12, Nº1, Article nº1758, July 2022, Q1. doi10.3390/ani12141758
- 5 [Alves-Pimenta, S.](#), [Soares, S.](#), [Colaço, B.](#), [Ginja, M.](#) 2022. Effect of elbow angle and weight-bearing on the evaluation of joint congruence in dogs. *The Anatomical Record*, Article 24937, April 2022, Q2. doi10.1002/ar.24937
- 6 [Alvites, R.](#), [Branquinho, M.](#), [Sousa, A.](#), [Lopes, B.](#), [Sousa, P.](#), [Prada, J.](#), [Pires, I.](#), [Raimondo, S.](#), [Luís, A.L.](#), [Geuma, S.](#), [Varejão, A.](#) 2022. Effects of olfactory mucosa stem/stromal cell and olfactory ensheathing cells secretome on peripheral nerve regeneration. *Biomolecules*, Open Access, Volume 12, Nº6, Article 8148, June 2022, Q2. doi10.3390/biom12060818
- 7 [Anástacio, S.](#), [Anjos, S.](#), [Neves, S.](#), [Neves, T.](#), [Esteves, P.](#), [Craveiro, H.](#), [Madeira, B.](#), [Pires, M.A.](#), [Sousa, S.](#), [Silva, G.](#), [Vilhena, H.](#) 2022. *Coxiella burnetii* in Dogs and Cats from Portugal: Serological and Molecular Analysis. *Pathogens*, Open Access, Volume 11, Nº12, Article 1525, December 2022, Q2. doi10.3390/pathogens11121525
- 8 [Andres, P.J.](#), [Cáceres, S.](#), [Illera, J.C.](#), [Crespo, Belén, Silván, G.](#), [Queiroga, F.L.](#), [Illera, M.J.](#), [Peréz, A.M.D.](#), [Peña, L.](#) 2022. Hormonal homologies between canine mammary cancer and human breast cancer in a series of cases. *Veterinary Sciences*, Open Access Volume 9, Nº8, Article 3958, August 2022, Q2. doi10.3390/vetsci9080395
- 9 [Araújo, P.D.](#), [Araújo, W.M.C.](#), [Patarata, L.](#), [Fraqueza, M.J.](#) 2022. Understanding the main factors that influence consumer quality perception and attitude towards meat and processed meat products. *Meat Science*, Open Access, Volume 193, Article 108952, November 2022, Q1. doi10.1016/j.meatsci.2022.108952
- 10 [Azevedo, T.](#), [Ferreira, T.](#), [Ferreira, J.](#), [Teixeira, F.](#), [Ferreira, D.](#), [Silva-Reis, R.](#), [Neuparth, M.J.](#), [Pires, M.J.](#), [Pinto, M.L.](#), [Gil da Costa, R.M.](#), [Bastos, M.M.S.M.](#), [Medeiros, R.](#), [Félix, L.](#), [Venâncio, C.](#), [Dias, M.I.](#), [Gaivão, I.](#), [Barros, L.](#), [Oliveira, P.A.](#) 2022. Supplementation of an anthocyanin-rich elderberry (*Sambucus nigra L.*) extract in FVB/n mice: a healthier alternative to synthetic colorants. *Applied Sciences*, section: Food Science and Technology, Volume 12, Nº23, Article 11928, November 2022, Q2. doi10.3390/app122311928
- 11 [Barbosa, M.](#), [Pires, M.J.](#), [Queiroga, F.](#), [Pires, C.A.](#), [Dinis, T.](#), [Silvestre-Ferreira, A.C.](#) 2022. Prothrombin time and activated partial thromboplastin time reference intervals in dogs, by gender and age group using the Start®4 (Stago). [Intervalos de referência para o tempo de protrombina e tempo de tromboplastina parcial ativada no cão de acordo com a idade e o gênero utilizando o Start®4 (Stago)]. *Ciencia Rural*, Open Access, Volume 52, Nº10, Article e20210543, April 2022, Q3. doi10.1590/0103-8478CR20210543
- 12 [Blaschikoff, L.](#), [Perea, A.D.](#), [Requicha, J.](#), [Detry, C.](#), [Rasteiro, R.](#), [Guimarães, S.](#), [Ureña, I.](#), [Serra, O.](#), [Smith, R.](#), [Valera, A.](#), [Almeida, N.J.](#), [Porfírio, E.](#), [Santos, A.B.](#), [Delicado, C.](#), [Simões, F.](#), [Matos, J.A.](#), [Amorim, I.R.](#), [Petrucci-Fonseca, F.](#), [Davis, S.J.M.](#), [Muñoz, A.](#), [Götherström, A.](#), [Fernandes-Rodríguez, C.](#), [Cardoso, J.L.](#), [Ginja, C.](#), [Pires, A.L.](#) 2022. A multidisciplinary study of Iberian Chalcolithic dogs. *Journal of Archaeological Science: Reports*, Volume 42, Article, 103338, April 2022, Q1. doi10.1016/j.jasrep.2022.103338
- 13 [Caetano, I.](#), [Amorim, L.](#), [Castanho, T.C.](#), [Coelho, A.](#), [Ferreira, S.](#), [Portugal-Nunes, C.](#), [Soares, J.M.](#), [Gonçalves, N.](#), [Sousa, R.](#), [Reis, J.](#), [Lima, C.](#), [Marques, P.](#) 2022. Association of amygdala

- size with stress perception: Findings of a transversal study across the lifespan. *European Journal of Neuroscience*, August 2022, Q2. doi10.1111/ejn.15809
- 14 Caetano, I., Ferreira, S., Coelho, A., Amorin, L., Castanho, T.C., Portugal-Nunes, C., Soares, J.M., Gonçalves, N., Sousa, R., Reis, J., Lima, C., Marques, P., Moreira, P.S., Rodrigues, A.J., Santos, N.C., Morgado, P., Magalhães, R., Picó-Pérez, M., Cabral, J., Sousa, N. 2022. Perceived stress modulates the activity between the amygdala and the cortex. *Molecular Psychiatry*, September 2022, Q1. doi10.1038/s41380-022-01780-8
 - 15 Canejo-Teixeira, R., Lima, A., Santana, A. 2022. Applications of contrast-enhanced ultrasound in splenic studies of dogs and cats. *Animals, Open Access*, Volume 12, Nº 16, Article 2104, August 2022, Q1. doi10.3390/ani12162104
 - 16 Capela e Silva, F., Mesquita, J.R., Pires, M.A., Muñoz-Prieto, A. 2022. Natural animal models of diseases. *Frontiers in Veterinary Science, Open Access*, Volume 917, Article 1056317, November 2022, Q1. doi10.3389/fvets.2022.1056317
 - 17 Costa-Silva, V., Anunciação, M., Andrede, E., Fernandes, L., Costa, A., Fraga, I., Barros, A., Marques, G., Ferreira, L., Rodrigues, M. 2022. Biovalorization of grape stalks as animal feed by solid state fermentation using White-Rot fungi. *Applied Sciences (Switzerland), Special Issue Evaluation of Chemical Characteristics of Biowaste and By-Products from Food Systems, Open Access*, Volume 12, Nº13, Article 6800, July 2022, Q1. doi10.3390/app12136800
 - 18 Costa-Silva, V., Pinheiro, V., Alves, A., Silva, J.A., Marques, G., Lorenzo, J., Rodrigues, M., Ferreira, L. 2022. Effects of dietary incorporation of grape stalks untreated and fungi-treated in growing rabbits: A preliminary study. *Animals, Open Access*, Volume 12, Article 112, Nº1, January 2022, Q2. doi10.3390/ani12010112
 - 19 Dardouri, M., Bettencourt, A., Martin, V., Carvalho, F., Colaço, B., Gama, A., Ramstedt, M., Santos, N., Fernandes, M.H., Gomes, P.S., Ribeiro, I.A.C. 2022. Assuring the biofunctionalization of silicone covalently bonded to rhamnolipids: Antibiofilm activity and biocompatibility. *Pharmaceutics, Open Access*, Volume 14, Nº9, Article 1836, September 2022, Q1. doi10.3390/pharmaceutics14091836
 - 20 Delgado, L., Brilhante-Simões, P., Garcez, F., Monteiro, L., Pires, I., Prada, J. 2022. p-S6 as a prognostic biomarker in canine oral squamous cell carcinoma. *Biomolecules, Open Access, Special Issue Emerging Biomarkers in Head and Neck Cancer Development and Progression*, Volume 12, Nº7, Article 935, July 2022, Q2. doi10.3390/biom12070935
 - 21 Delgado, L., Brilhante-Simões, P., Prada, J., Monteiro, L. 2022. Oral pathology in Portuguese dogs: An eight-year biopsy-based retrospective study. *Journal of Veterinary Dentistry*, pp. 1-10, May 2022, Q3. doi10.1177/08987564221098107
 - 22 Delgado, L., Monteiro, L., Silva, P., Bousbaar, H., Carcez, F., Silva, J., Brilhante-Simões, P., Pires, I., Prada, J. 2022. BUBR1 as a prognostic biomarker in canine oral squamous cell carcinoma. *Animals, Open Access*, Volume 12, Nº22, Article 3082, November 2022, Q1. doi10.3390/ani12223082
 - 23 Dias, I., Viegas, C.A., Requicha, J.F., Saavedra, M.J., Azevedo, J.M., Carvalho, P.P., Dias, I.R. 2022. Mesenchymal Stem cell studies in the goat model for biomedical research—A Review of the scientific literature. *Biology. Biology*, Volume 11, nº 9, Article 1276, August 2022, Q1. doi10.3390/biology11091276
 - 24 Dias, L.R., Vilhena, H., Carolinoi, N., Freire, A., Moura, M., Aleixo, R., Silvestre-Ferreira, A.C., Duarte, S.C. 2022. Blood transfusions in dogs and cats from Portugal: a retrospective study. *Journal of the Hellenic Veterinary Medical Society*, Volume 73, Nº3, pp. 4289 – 4294, 2022, Q4. doi10.12681/jhvms.25814
 - 25 Dourado, A., Gomes, A., Teixeira, P., Azevedo, J.T., Lobo, L., Dias, I.R., Pinelas, R. 2022. Antinociceptive effect of a sacro-coccygeal epidural of morphine and lidocaine in cats undergoing ovariohysterectomy. *Veterinary Sciences 2022*, Volume 9, Nº11, Article 623, November 2022, Q2. doi10.3390/vetsci9110623
 - 26 Ferguson-Smith, M.A., Pereira, J.C., Borges, A., Kasai, F. 2022. Observations on chromosome-specific sequencing for the construction of cross-species chromosome homology maps and its resolution of human:alpaca homology. *Molecular Cytogenetics, Open Access*, Volume 15, Nº1, Article 44, December 2022, Q3. doi10.1186/s13039-022-00622-0
 - 27 Ferreira, L.M., Pereira, D., Lourenço, A., Rodrigues, M.A.M. 2022. Evaluation of N-alkanes as faecal markers to estimate diet composition, feed intake, and digestibility in European Bison (*Bison bonasus*). *International Journal of Zoology, Open Access*, Volume 2022, Article 9800265, October 2022, Q3. doi10.1155/2022/9800265

- 28 Ferreira-Baptista, C., Queirós, A., Ferreira, R., Fernandes, M.H., Gomes, P.S., Colaço, B. 2022. Retinoic acid induces the osteogenic differentiation of cat adipose tissue-derived stromal cells from distinct anatomical sites. *Journal of Anatomy*, September 2022, Q1. doi10.1111/joa.13758
- 29 Ferreira-Baptista, C., Queirós, A., Ferreira, R., Fernandes, M.H., Colaço, B., Gomes, P.S. 2022. The Osteogenic Potential of Falciform Ligament-Derived Stromal Cells—A Comparative Analysis between Two Osteogenic Induction Programs. *Bioengineering, Open Access*, Volume 9, Nº12, Article 810, December 2022, Q2. doi10.3390/bioengineering9120810
- 30 Flores, A.R., Rêma, A., Mesquita, J.R., Taulescu, M., Seixas, F., Gartner, F., Amorim, I. 2022. E-cadherin expression in canine gastric carcinomas: Association with clinicopathological parameters. *Veterinary Sciences, Open Access*. Volume 9, Nº4, Article 172, April 2022, Q1. doi10.3390/vetsci9040172
- 31 Flores, A.R., Rêma, A., Mesquita, J.R., Taulescu, M., Seixas, F., Gärtner, F., Amorim, I. 2022. Vimentin and Ki-67 immunolabeling in canine gastric carcinomas and their prognostic value. *Veterinary Pathology*, Volume 59, Nº6, pp. 903–914, August 2022, Q1. doi 10.1177/03009858221117858
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Scientific events

Usually, CECAV members regularly participate in international and national scientific events within the scope of this R&D Unit scientific areas. In 2022, more than 250 communications (oral or poster) were co-authored with researchers from CECAV, around 50% at international events.

In the lists below, the CECAV members are underlined.

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- 109 Maltez Costa, L. 2022. Tomar decisões cirurgicas em contexto clínico- evidência ou base empírica? *Simpósio: Ensino da Medicina Veterinária Baseada na Evidência: da Teoria à Prática*, February 23, UTAD, Vila Real, Portugal. Oral communication.
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- 115 Martins, F., Vieira-Pinto, M., Abrantes, A.C., Viana, M., Venâncio, C., Vinhas, B., Cabeças, B., Mateus, T.L. 2022. Low prevalence of zoonotic intestinal parasites in wild ungulates from Portugal. Proceedings of the *ECVPH AGM & Annual Scientific Conference*, September 27-October 1, Athens, Greece, p.50. Poster.
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- 117 Martins, F., Vieira-Pinto, M., Abrantes, A.C., Viana, M., Venâncio, C., Vinhas, B., Mateus, T.L. 2022. Diversidade e carga parasitária gastrointestinal em javalis: resultados preliminares. Revista Portuguesa de Ciências Veterinárias: resumos do *VII Congresso Internacional de Enfermagem Veterinária. Hospitalização de A a Z*, March 17-18, Ponte de Lima, Portugal, 117 (622), p. 57.
- 118 Martins, F., Vieira-Pinto, M., Abrantes, A.C., Viana, M., Venâncio, C., Vinhas, B., Mateus, T.L. 2022. Gastrointestinal parasites in wild boar from Portugal in a One Health perspective. Abstracts of the *13th International Symposium on Wild Boar and other Suids*, September 6-7, Seva, Barcelona, Spain, p. 140. Poster.
- 119 Martins, R., Seixas, F., Gama, A. 2022. Estudo da expressão imunohistoquímica dos receptores do TGF- β em lesões neoplásicas da mama da cadela. Livro de resumos do *XXV Encontro da Sociedade Portuguesa de Patologia Animal – patologia forense veterinária*, June 30-July 1, Oeiras, Portugal, p. 53. Poster 23.
- 120 Martins, R., Radar-Chafirovitch, A., Seixas, F., Gama A. 2022 Expression pattern of Transforming Growth Factor B type I and II receptors in canine mammary tumors. In Proceedings of the *Annual Congress of the ESVP/ECVP*, September 7-10, Athens, Greece, pp. 130. Oral communication.

- 121 Martins-Bessa, A.C. 2022. Maneio Reprodutivo em Pequenos Ruminantes: a importância do macho. *Webinar: Maneio Reprodutivo e Higiene da Ordenha*, March 4, online. Invited speaker.
- 122 Mata, F., Araújo, J.P., Soares, M.L., Pinto, R., Cerqueira, J.L. 2022. People's demand of farm animal welfare legislation in the bric countries and the USA, and comparison with Europe. In *III Congresso Internacional da Agroindústria*, online, July 21-22, Recife, Brasil.
- 123 Mateus, T.L. 2022. A fauna selvagem como reservatório de zoonoses. In *7º Simpósio de Saúde Pública do Barroso*, October 1, Boticas, Portugal. Invited speaker.
- 124 Mateus, T.L. 2022. Devemos ter medo do lobo mau? Parasitas gastrointestinais em lobos ibéricos e o conceito "Uma Só Saúde". In *I Jornadas Científicas de Medicina Veterinária*, April 29, Gandra, Portugal. Invited speaker.
- 125 Mateus, T.L. 2022. Ecohealth pre-conference event: A 24-hour connected conversation about *Working Together for a Healthy, Just, and Sustainable Planet*. November 13, Vancouver, Canada, online. Invited speaker.
- 126 Mateus, T.L., Silva, A., Prata, C., Barata, D., Rodrigues, M., Vieira e Brito, N. 2022. Parasitas gastrointestinais em gatos de Penafiel. *Revista Portuguesa de Ciências Veterinárias: resumos do VII Congresso Internacional de Enfermagem Veterinária, Hospitalização de A a Z*, March 17-18, Ponte de Lima, Portugal, 117 (622), p. 53.
- 127 Matovu, J., Silva, G.F., Vasconcelos, J., Alves, A., Seixas, F., Pires, I., Gama, A., Pinto, M.L., Prada, J., Coelho, A.C., Martins, Â., Cardoso, L., Pires, M.A. 2022. Occurrence of canine lymphoma and tumours and the associated risk factors in a lab in Portugal. *CIISA Congress 2022. Innovation in Animal and Veterinary Biomedical Research*, November 11-12, Lisbon, Portugal, Session 4, Clinical research. Poster P122.
- 128 Matovu, J., Silva, G.F., Vasconcelos, J.S., Alves, A., Seixas, F., Pires, I., Gama, A., Pinto, M.L., Prada, J., Coelho, A.C., Martins, Â., Cardoso, L., Pires, M.A. 2022 An epidemiology study of canine lymphoma in a lab in Portugal. *Proceedings of the Annual Congress of the ESVP/ECVP*, September 7-10, Athens, Greece, pp 150. Poster 43.
- 129 Medeiros, I., Fernandez-Novio, A., Simões, J., Astiz, A. 2022. Veterinary advise and health management in bovine dairy farms from São Miguel Island (Azores). *Book of Abstract of the 73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, Session 08, p. 187, Poster 15.
- 130 Mestre, V.F., Pereira, J., Barros, P., Faria, S., Chaves, R., Ray, D., Cabral, J.A., Adegas, F. 2022. Peeking into daubenton's bar comparative chromosome map – A preliminary Study. *Book of Abstracts of the III International Meeting of the Portuguese Society of Genetic*, June 27-28, Évora, Portugal, p. 89. Poster 58.
- 131 Miranda, C., Soares, R., Martins, Â., Cunha, S., Ferreira, L., Igrejas, G., Poeta, P. 2022. Associations between enterococci species isolated from ornamental animal feed and genes of antibiotic resistance. *Proceedings of the 4th International Conference of the European College of Veterinary Microbiology*, September 15-17, Bari, Italy, p. 78. Poster.
- 132 Miranda, M., Ferreira, P., Faustino-Rocha, A.I., Brancal, N., Leal, F., Carvalho, L., Chaves, J., Gama, A., Oliveira, P.A., Lreite, R.P. 2022. Histopathological and cytogenetic characterization of canine mammary tumours. *Book of Abstracts of the III International Meeting of the Portuguese Society of Genetic*, June 27-28, Évora, Portugal, p. 100. Poster 65.
- 133 Miranda, P.R.M., Araújo, J.P., Cerqueira, J.O.L. 2022. Desempenho produtivo de bovinos machos inteiros cruzados em regime intensivo. *Abstract book of the IV Congresso Nacional das Escolas Superiores Agrárias (CNEA)*, November 3-4, Santarém, Portugal, p. 225. Poster.
- 134 Monteiro, A., Pires, I., Prada, J., Raposo, T. 2022. Immunohistochemical expression of tensin-4/CTEN in squamous cell carcinoma in dogs. *Book of Abstracts of the XIV Jornadas de Genética e Biotecnologia/IV Jornadas Ibéricas de Genética e Biotecnologia*, March 31-April 2, UTAD, Vila Real, Portugal, p. 74. Poster P10.
- 135 Monteiro, D. 2022. Evolução dos resultados técnicos em Portugal. In *XI Jornadas Internacionais de Suinicultura*, May 11-12, Vila Real, Portugal. Oral Communication.
- 136 Montenegro, A.C., Guerreiro, A.C., Pinto, A., Matos, L., Rodrigues, A.R., Martins-Bessa, A.C., Almeida, H., Silva, E. 2022. Ovarian senescence as a key driver of reproductive aging: a comparative study in mammalian model. In *16th International Congress of the Spanish Society for Animal Reproduction (AERA)*, 20-22 October 2022, León, Spain. Poster P8.
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- 142 Morais, D., Coelho, A., Pinheiro, V., Monteiro, J. 2022. Biosafety in rabbit farming: presente and future. Bioseguridad en las cuniculturas en el Norte de Portugal: presente y futuro. Biossegurança nas cuniculturas do norte de Portugal: presente e futuro. Patologia y Bienestar, Libro de Actas del 46º *Symposium de Cunicultura de ASESCU*, June 1-2, Piñeda del Mar, Spain, pp. 138-141. Poster
- 143 Morais, D., Coelho, A.C., Pinto, M.L., Pinheiro, V., Monteiro, J. 2022. Lesões Compatíveis com Disbiose em Coelhos - Associação com Medidas de Biossegurança. Livro de resumos do *XXV Encontro da Sociedade Portuguesa de Patologia Animal – patologia forense veterinária*, June 30-July 1, Oeiras, Portugal, p. 49. Poster 19,
- 144 Morais, D., Coelho, A.C., Pinto, M.L., Pinheiro, V., Monteiro, J. 2022. Enterocolite Epizootica do Coelho e Biossegurança - Um estudo Anatomopatológico e Epidemiológico. Livro de resumos do *XXV Encontro da Sociedade Portuguesa de Patologia Animal – patologia forense veterinária*, June 30-July 1, Oeiras, Portugal, p. 50. Poster 20.
- 145 Moreira, A.B., Moura-Alves, M., Saraiva, C., Cândido, A.R., Esteves, A. 2022. Efeito da aplicação de quitosano na microbiota deteriorativa de vísceras para consumo. Livro de Resumos Concurso de Posters Científicos de Medicina Veterinária Concurso de Posters Científicos One Health – *XVIII Congresso Internacional Veterinário Montenegro – Medicina interna sem segredos*, November 4-5, Santa Maria da Feira, Portugal, pp. 101-102.
- 146 Nascimento-Gonçalves, E., Seixas, F., Colaço, B., Ferreira, R., Oliveira, P.A. 2022. Prostate lesions: does age matter? Abstract book of the *XIV Jornadas de Bioquímica*, May 24-25, UTAD, Vila Real, Portugal, pp. 42, 24-25. Poster.
- 147 Nascimento-Gonçalves, E., Ferreira, T., Faustino-Rocha, A.I., Seixas, F., Ferreira, R., Colaço, B., Barros, L., Ferreira, I.C.F.R., Oliveira, M., Peixoto, F., Rosa, E., Oliveira, P.A. 2022. The chestnut in health promotion: its therapeutic properties. Livro de Resumos do IV Simpósio Nacional da Castanha, July 7-9, UTAD, Vila Real, Portugal, pp. 35-36. Oral communication.
- 148 Nascimento-Gonçalves, E., Faustino-Rocha, A.I., Seixas, F., Colaço, B., Ferreira, R., Oliveira, P.A. 2022. What is the correlation between seminal vesicle lesions and prostate cancer lesions? *Global Webinar on Animal Science and Veterinary Medicine*, March 7-8, Online Conference. Oral communication.
- 149 Nascimento-Gonçalves, E., Seixas, F., Faustino-Rocha, A.I., Pires, M.J., Neuparth, M.J., Moreira-Gonçalves, D., Duarte, J.A., Colaço, B., Ferreira, R., Oliveira, P.A. 2022 Exploring the effect of exercise training in preventing prostate cancer using a chemically and hormonally induced rat model. In *LII Reunião da Sociedade Portuguesa de Farmacologia, XL Reunião de Farmacologia Clínica, XXI Reunião de Toxicologia*, February 9-11, Porto, Portugal, p. 41. Oral communication.
- 150 Nóbrega, C., Oliveira, A., Coelho, C., Cruz, R., Mesquita, J.R., Oliveira, P., Faustino-Rocha, A., Pires, M.J., Mateus, T.L., Vala, H., Pereira, M.A. 2022. Seroprevalência de *Toxoplasma gondii* em gatos em Portugal continental. Revista Portuguesa de Ciências Veterinárias: resumos do *VII Congresso Internacional de Enfermagem Veterinária. Hospitalização de A a Z*, March 17-18, Ponte de Lima, Portugal, 117 (622), p. 58.
- 151 Nunes, P., Outor-Monteiro, D., Teixeira, J., Mourão, J.L., Pinheiro, V. 2022. The effect of *Urtica urens* in the diet of broilers with different starting live weights. Book of Abstract of the *73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, Session 54, p. 551. Oral communication 9.

- 152 Nunes-Pereira, M., Venâncio, C., Sousa, B., Félix, L.M., Pinto, M.L., Alves-Pimenta, S., Colaço, B. 2022. Hepatic sod activity is affected after vanadium nasal delivery in rats. Livro de Resumos das *XIV Jornadas de Bioquímica*, May 24-25, UTAD, Vila Real, Portugal, p. 46. Poster.
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- 154 Outor-Monteiro, D., Teixeira, J., Madeira, F., Teixeira, A., Ribeiro, J., Guedes, C., Gomes, M., Pinheiro, V. 2022. Can the inclusion of different oil cakes affect the performance of Bistrot pigs? Book of Abstract of the *73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, p. 365. Oral communication.
- 155 Outor-Monteiro, D., Teixeira, J., Nunes, P., Botelho, S., Ribeiro, J., Pinheiro, V. 2022. Preliminary study on the effect of bay and eucalyptus leaves in feed on weaning pigs' growth performances. *CIISA Congress 2022. Innovation in Animal and Veterinary Biomedical Research*, November 11-12, Lisbon, Portugal, Session 3 Animal health. Poster P103.
- 156 Pacheco, L.S., Seixas, F., Oliveira, I., Esteves, A. 2022. Detecção de Neoplasias na Inspeção de Bovinos no Matadouro de São Miguel. Livro de Resumos Concurso de Posters Científicos de Medicina Veterinária Concurso de Posters Científicos One Health – *XVIII Congresso Internacional Veterinário Montenegro – Medicina interna sem segredos*, November 4-5, Santa Maria da Feira, Portugal, pp. 95-96.
- 157 Paixão, G., Botelho-Fontela, S., Pinto, R., Vaz-Velho, M., Payan Carreira, R., Esteves, A. 2022. Low levels of androstenone and skatole found in Bísaro pigs reared in alternative systems. Book of Abstract of the *73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, Session 65, p. 654. Poster 16.
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- 159 Pedroso, P., Pires, I., Prada, J., Pinto, M.L., Seixas, F., Pires, M.A., Calado, A.M., Alves, A., Gama, A. 2022. Estudo retrospectivo de necropsias forenses realizadas pelo Laboratório de Histologia e Anatomia Patológica da Universidade de Trás-os-Montese Alto Douro (LHAP-UTAD) durante os anos de 2018 a 2021. Livro de resumos do *XXV Encontro da Sociedade Portuguesa de Patologia Animal – patologia forense veterinária*, June 30-July 1, Oeiras, Portugal, p. 52. Poster 22.
- 160 Pereira, J.C., Gonçalves-Anjo, N., Bastos, E., Orge, L., Matos, A.C., Gama, A., Alves, A., Esteves, A., Rocha, S., Figueira, L., Lima, C., Silva, F., Seixas, F., Pires, I., Silva, J., Vieira-Pinto, M., Pinto, M.L., Mendonça, P., Carvalho, P., Tavares, P., Sargo, R., Pires, M.A. 2022.. Analysis of sequence variability of prion protein gene 8PRNP9 IN Portuguese cervid population species: red deer, Fallow deer and Roe deer. Book of Abstracts of the *III International Meeting of the Portuguese Society of Genetic*, June 27-28, Évora, Portugal, p. 96. Poster 61.
- 161 Pereira, J.C., Machado, A., Saianda, M., Gonçalves-Anjo, N., Bastos, E., Orge, L., Matos, A.C., Gama, A., Alves, A., Esteves, A., Rocha, S., Figueira, L., Lima, C., Silva, F., Seixas, F., Pires, I., Silva, J., Vieira Pinto, M., Pinto, M.L., Mendonça, P., Carvalho, P., Tavares, P., Sargo, R., Pires, M.A. 2022. Are western Iberian Roe deer populations hotspots of genetic diversity? Book of Abstracts of the *III International Meeting of the Portuguese Society of Genetic*, June 27-28, Évora, Portugal, p. 97. Poster 62.
- 162 Pereira, M.A., Pereira, C., Araújo, D., Santos, R., Mateus, T.L. 2022. Administração de medicamentos por tutores de animais de companhia em Portugal. *Revista Portuguesa de Ciências Veterinárias: resumos do VII Congresso Internacional de Enfermagem Veterinária. Hospitalização de A a Z*, March 17-18, Ponte de Lima, Portugal, 117 (622), p. 41.
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- 164 Pimenta, J.C., Prada, J., Pires, I., Cotovio, M. 2022. E-Cadherin Expression in equine malignant melanocytic tumours. Book of abstracts of the *33th European Veterinary Dermatology Congress*, September 29- October 1, Oporto, Portugal, p. 495. Poster.
- 165 Pimenta, S., Mateus, T.L., Santos, J. 2022. Avaliação microbiológica de mãos de manipuladores numa indústria de carnes. *Revista Portuguesa de Ciências Veterinárias: resumos do VII Congresso Internacional de Enfermagem Veterinária, Hospitalização de A a Z*, March 17-18, Ponte de Lima, Portugal, 117 (622), p. 46.

- 166 Pinheiro, V., Teixeira, J., Nunes, P., Outor-Monteiro, D., Mourão, J.L. 2022. Effects of dietary supplement with *Urtica urens* on performances and serum cholesterol of broilers. Book of Abstract of the *73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, Session 54, p. 571. Theatre 8.
- 167 Pinheiro, V., Teixeira, J., Nunes, P., Silva, V.C., Neves, S., Ferreira, L., Rodrigues, M., Outor-Monteiro, D. 2022. Correlations of age or live weight of growing rabbits with the development of internal organs and parts of the carcass. *CIISA Congress 2022. Innovation in Animal and Veterinary Biomedical Research*, November 11-12, Lisbon, Portugal, Session 2 Animal and Food Science. Poster P 061.
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- 169 Pinto, R.P., Mata, F., Araújo, J.P., Cerqueira, J.L., Vaz-Velho, M. 2022. Meat quality of Bísaro breed and terminal cross entire male pigs. Book of Abstract of the *73rd Annual Meeting of the European Federation of Animal Science*, September 5-9, Oporto, Portugal, p. 653.
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- 171 Pinto-Pinho, P., Fardilha, M., Pinto-Leite, R., Colaço, B. 2022. Exploring the *Oryctolagus cuniculus*' sex-related proteome: a bioinformatic approach. In Abstracts of the *13th International Symposium of Clinical and Applied Anatomy*. Revista Argentina de Anatomía Clínica, Septiembre, July 15-17, Vilamoura, Portugal, (Argentine Journal of Clinical Anatomy), Volume 14, Nº3, p. 442. Poster.
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- 269 Vasconcelos, J.S., Nascimento, J.M., Nascimento, L.F., Barroso, L.M.F., Cardoso, L., Alves, A., Pires, M.A. 2022. Aspectos clínicos, epidemiológicos e diagnósticos da esporotricose em um cão. Livro de resumos do *XXV Encontro da Sociedade Portuguesa de Patologia Animal – patologia forense veterinária*, June 30-July 1, Oeiras, p.25. Portugal. Oral communication O9.
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- 274 Viegas, C. 2022. Estomatite crónica felina – decisões defíceis suportadas na melhor evidência. *Simpósio: Ensino da Medicina Veterinária Baseada na Evidência: da Teoria à Prática*, February 23, UTAD, Vila Real, Portugal. Oral communication.
- 275 Viegas, C. 2022. Protocolos vacinais e outros aspectos vacinais dos gatos. In *II Seminário de Imunologia Veterinária. Vacinas*, November 16, UTAD, Vila Real, Portugal. Invited speaker.
- 276 Vieira, A., Lopes, G., Santos, M., Moura-Alves, M., Saraiva, C., Esteves, A., Matos, M. 2022. Identification and evaluation of virulence genes in samples of the *Salmonella* spp. Genus. Book of Abstracts of the *XIV Jornadas de Genética e Biotecnologia/IV Jornadas Ibéricas de Genética e Biotecnologia*, March 31-April 2, UTAD, Vila Real, Portugal, p.133. Poster P59.
- 277 Vieira-Pinto, M., Laukkanen-Ninios, R., Langkabel, N., Santos, S., Alban, L., Gómez-Laguna, J., Blagojevic, B., Meemken, D., Bonardi, S., Antunovic, B., Maurer, P., Alvseike, O., Sergio, G. 2022. A European survey on post-mortem inspection of finishing pigs. Book of Abstracts of the *2nd RIBMINS Scientific Conference. Towards the Future of Meat safety Assurance*, April 7-8, Córdoba, Spain, p.22. Oral communication.
- 278 Vieira-Pinto, M., Martinez-Calabuig, N., Remessa, S., Afonso, J., Panadero, R. 2022. First report of *Cephenemyia stimulator* in roe deer (*Capreolus capreolus*) from Portugal – Importance of hunters in monitoring diseases in game. Livro de resumos da *XIII Reunião de Ungulados Silvestres Ibéricos*, October 7-9, Potes, Cantábria, Spain, p.31. Poster.
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- 280 Vilhena, H., Dias, F., Petrucci, G., Simões, A.R., Dias-Pereira, P., Canadas-Sousa, A., Figueira, A.C., Craveiro, H., Teixeira, A.L., Medeiros, R. 2022. Extracellular vesicles-derived micrnas in felines with spontaneous malignant mammary tumours. Abstracts from the *ESVONC Annual Congress*, May 26–28, Syracuse, Sicily. Poster.

Formation

In 2022, 45 doctoral students (including 16 students with a scholarship) are developing their research work at CECAV. Most of these PhD students are from the Doctoral programmes anchored in CECAV; the

Animal Science and Veterinary Science Doctoral Program and Animal Science Doctoral Program. During 2022, 7 PhD students were finished their doctoral thesis.

Most of the researchers at CECAV are professors and they also develop an academic career, establishing a very important link between teaching and research for undergraduate and master students. A large number of master students are involved in the research activities of CECAV while they develop their dissertation work. In 2022, the orientation of master students (88 students) continued as an important activity at CECAV.

This lists below include Doctoral thesis and Master dissertations concluded in 2022 and oriented by researchers of CECAV.

Doctoral Thesis

- 1 Ana Rute Flores. Unravelling the molecular mechanisms underlying canine gastric cancer. Doutoramento em Patologia e Genética Molecular, ICBAS-UP, Porto. October 2022.
- 2 Beatriz Maria Pinto do Vale. Emerging and reemerging zoonoses in the 21st century – an epidemiological approach in the scope of the One Health concept. Doutoramento em Ciências Veterinárias, UTAD, Vila Real. Nvember 25.
- 3 Denis Meehan. Unravelling the potential role of microalgae as an alternative feed supplement for ruminants: in vitro e in vivo approaches, Doutoramento em Ciência Animal, UTAD, Vila Real. December 20.
- 4 Gisele da Costa Margatho. Phenotypic and nosological factors affecting milk production and composition in Serrana goats. Doutoramento em Ciências Veterinárias, UTAD, Vila Real. January 28.
- 5 Gonçalo Nuno Petrucci Mauricio. A clinical perspective on feline mammary carcinomas: insights into new treatment approaches and prognostic factors. Doutoramento em Ciências Veterinárias, UTAD, Vila Real. October 19.
- 6 Gustavo Manuel Quintela Paixão. Immunocastration in Bísaro Pig. Doutoramento em Ciências Veterinárias, UTAD, Vila Real. June 21.
- 7 Isabel Loreto Barroso de Carvalho. Extended-spectrum β -lactamases and carbapenemases in Enterobacteriaceae of pets, wild animals, and humans. Are we facing a public health problem. Doutoramento em Ciências Veterinárias, UTAD, Vila Real. June 24.

Master dissertations

1. Adriana Maia Fernandes. Assessment of the thyroid profile in the Iberian Lynx (*Lynx pardinus*). Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 18.
2. Alexandre Domingues Gomes. A utilização do patellar groove replacement (pgr) no tratamento da luxação patelar em animais de companhia. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. July 19.
3. Alice Cardoso 2022. Inspeção sanitária integrada em aves. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 4.
4. Alice Teresa Carneiro Gomes. Evaluation of tail biting in pigs at the abattoir. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 10.
5. Aliénor Elisa Denise Cégretin. Técnicas cirúrgicas para resolução da rutura do ligamento cruzado cranial em canídeos. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
6. Ana Alexandra Araújo Marques. Neoplasias malignas da cavidade oral do cão: descrição das características tomográficas. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. July 14.

7. Ana Beatriz Soares Duarte. Javali: distribuição atual e potencial reservatório de doenças virais na península ibérica. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. January 31.
8. Ana Catarina Santos Carvalho. Estudo da microbiota e resistências aos antimicrobianos em dermatites da quartela em equinos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. May 5.
9. Ana Carolina Reis Fernandes Carvalho. Síndrome do ovário remanescente em Animais de Companhia. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. May 27.
10. Ana Filipa Dias de Sousa. Relatório de estágio num centro de diagnóstico veterinário – CEDIVET. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. July 27.
11. Ana Filipa Ferreira Conceição. Parâmetros envolvidos na decisão terapêutica médica versus cirúrgica da síndrome de cólica equina”. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 14.
12. Ana Filipa Pacheco Costa. Estudo de casos clínicos de Parvovirose. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 12.
13. Ana Filipa Pinto Vaz. Mastocitoma Canino: estudo retrospectivo. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. March 24.
14. Ana Melissa Alves Rodrigues. Fatores de bem-estar animal no pré-abate de suínos que influenciam a qualidade da carne: lesões de pele e estudo do impacto no pH da carcaça. Mestrado Integrado em Medicina Veterinária, UTAD. May 30.
15. Ana Patrícia Maciel Moreira de Campos Maia. Endoscopia versus cirurgia na remoção de corpos estranhos esofágicos e gástricos em animais de companhia: análise de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 6.
16. Ana Rita Nicolau Lopes Velasco de Sousa. Estudo anatómico e morfométrico da região infraorbitária em gatos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Data: July 26.
17. Ana Rita Alves Lima. Carcinoma de células escamosas em gatos: abordagem terapêutica. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
18. Ândria Filipa Rodrigues Nunes. Analgesia peri-operatória em laparotomia no gato. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
19. Anaëlle Marquier. Warburg Effect in tumor bearing dogs. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
20. Bárbara Catarina Gonçalves Faria. Abordagem clínica em doenças parasitárias. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 19.
21. Beatriz Fernandes Silva Ribeiro Leite. Estágio no centro de ecologia recuperação e vigilância de animais selvagens e em clínica de Novos Animais de Companhia, na formação em Medicina Veterinária. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. January 31.
22. Bárbara José Almeida de Miranda. Cirurgia Mínimamente Invasiva em Animais de Companhia – Apresentação de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 19.
23. Bárbara Paulino Varela Leal. Estudo da atividade antimicrobiana da Fibrina Rica em Plaquetas (PRF) de origem canina. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
24. Carlos Miguel Dias Martins Maia. Caracterização da raça autóctone portuguesa, raça Branca: desempenho produtivo, bem-estar animal e qualidade da carne. Mestrado em Zootecnia, Escola Superior Agrária do Instituto Politécnico de Viana do Castelo. November.
25. Carolina Nogueira Henriques. Estabilidade pré-analítica de parâmetros de coagulação em plasma citratado armazenado à temperatura ambiente. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Date: March 4.
26. Catarina Bartilotti Santiago. Intrepetar o silêncio: os jardins zoológicos e o seu papel na sociedade atual – Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 9.
27. Catarina Flor Cerquido Ferreira. Práticas comuns em recuperação de espécies endémicas da Costa Rica - Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. September 14.
28. Catarina Isabel Pereira de Sousa. Application of comet assay to evaluate the impact of noise in DNA damage levels among exposed workers. Mestrado em Biotecnologia para as Ciências da Saúde, UTAD, Vila Real. January 26.

29. Catarina Sofia Martinho Martins. Estudo da infeção por *Dirofilaria immitis* em cães na Região Autónoma da Madeira. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Data: 19 de julho.
30. Clara Sofia Ferreira Souto. Insulinoma canino – Apresentação de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 18.
31. Cláudia Isabel Lopes Gonçalves. Deteminação de intervalos de referência de parâmetros de bioquímica sérica em corço (*Capreolus capreolus*). Mestrado em Biologia Clínica Laboratorial, UTAD, Vila Real. Novembre 28.
32. Daniel Gonçalves Morais. Biossegurança em cuniculturas e sua relação com a ocorrência de patologias do foro digestivo compatíveis com etiologia infecciosa. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. January 10.
33. Diana Elisabete Moreira Teixeira. Importância da ecografia no diagnóstico e escolha da técnica cirúrgica para o tratamento da Neuropatia Laríngea Recorrente. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. March 31.
34. Diana Filipa Rocha Neves. A giardiose em carnívoros domésticos – Estudo da percepção dos tutores e descrição de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 6.
35. Diana Isabel Jesus Tavares Pais. Osteossarcoma canino – Da etiologia ao prognóstico. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. June 29.
36. Diogo Alexandre Dias Tinoco. Influência do sistema de produção em indicadores produtivos e reprodutivos da raça bovina Minhota. Mestrado em Zootecnia, Escola Superior Agrária do Instituto Politécnico de Viana do Castelo. November.
37. Diogo de Carvalho Pires Martinho de Moura. Pensamento crítico no ensino de medicina veterinária. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 15.
38. Donato Alexandre Figueiro Marafona. Obesidade em répteis. Mestrado Integrado em medicina Veterinária, ITAD, Vila Real. June 20.
39. Duarte Pereira Marques Almeida. Inspeção sanitária de suínos em matadouro avaliação de lesões por mordedura da cauda. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Data: January 31.
40. Filipa Manuel Santos Pimentel. Medicina e cirurgia em animais de companhia- Apresentação de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. May 26.
41. Francisco Rafael de Almeida Malhão. Avaliação de Rácios Hematológicos em Tumores Mamários Felinos. Mestrado Integrado em Medicina Veterinária, EUVG, Coimbra.
42. Francisca Salomé Monteiro Vieira. Study of serum proteins in Iberian roe deer (*Capreolus capreolus*): total proteins, protein electrophoresis and acute phase proteins. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Novembre 29.
43. Francisco Jorge de Barbieri Marinho. Clínica e cirurgia de animais de companhia - acompanhamento das rotinas diárias num Hospital Veterinário. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 11.
44. Graça Isabel Moreira da Silva. Análise microestrutural de dentes de gato por micro-tomografia computadorizada. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. June 15.
45. Igor Manuel Barbosa Neto. Acompanhamento dos procedimentos na linha de abate de bovinos, expedição das carcaças e avaliação do marmoreado – Relatório de Estágio. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. December 12.
46. Inês Soeiro Rego Pereira da Silva. Estudo da infeção por *Toxocara canis* e *Toxocara cati* em animais de companhia. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 17.
47. Inês Valente Pinho Ribeiro da Costa. Cirurgia de animais de companhia - Casos clínicos de resolução cirúrgica – Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 18.
48. Ivo Rodrigues Medeiros. Production and veterinary herd health management in dairy farms from São Miguel Island (Azores): veterinarians' and farmers' perceptions. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 21.
49. Joana de Noronha Araújo Rocha Martins. Use of infrared thermography to assess body temperature as a stress indicator on horses during ridden and lunging sessions. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. July 20.

50. Joana Dora Freitas Alves. Avaliação do fluxo do trato de saída do ventrículo direito, através dos métodos Doppler colorido e Doppler espectral, em aves selvagens ingressadas no CRAS - HV UTAD. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 28.
51. Joana Moura de Oliveira. Conhecimentos sobre prevenção e controlo da infeção de doenças infecciosas adquiridos devido à pandemia COVID-19 - Um estudo na população portuguesa. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. January 31.
52. João António Jesus Silva. Medicina da conservação e reabilitação de animais silvestres – Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. March 30.
53. João Carlos Proença Salvado. The influence of different collection intervals in semen quality of Standard and Miniature Bull Terriers. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. June 30.
54. João Domingos Martins Ferreira. Equine cheek teeth extraction: introducing an alternative approach – “Corkscrew” technique. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. May 25.
55. João Nuno Santos Cravino Ruas Canotilho2022. Avaliação sanitária de caça maior. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 18.
56. Lúcia Maria Rocha Neves. Cardiomiopatia dilatada – descrição de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 9.
57. Luís Miguel Gomes Faria. Caracterização das práticas alimentares de vitelas em explorações leiteiras do concelho de Barcelos - Relatório de Estágio. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. July 13.
58. Luís Miguel Sousa Lino. Small cetaceans' ulcerative gastric injuries in the Portuguese coast. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. January 12.
59. Magda Belinda Rodrigues do Nascimento. Conservação, manejo e clínica de crias de tamanduá bandeira (*Myrmecophaga tridactyla*) e de tamanduá mirim (*Tamandua tetradactyla*). Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 9.
60. Márcia Martins Dias. Quimioterapia metronómica em cães e gatos: um estudo retrospectivo. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. March 31.
61. Margarida Nunes Fernandes. Influência de diluidores de criopreservação de sémen nos parâmetros seminais à descongelaçã. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 19.
62. Margarida Torres Araújo Fernandes. Análise e comparação de medidas de biossegurança em explorações pecuárias no Alentejo, Ilha Terceira e Turlock, Califórnia. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 14.
63. Maria Beatriz Barreiros Viana de Sousa. Lesões articulares em poldros da raça Lusitana. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. October 20.
64. Maria Beatriz Pereira Remoaldo. Inspeção sanitária em aves. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. January 21.
65. Maria Daniela Vieira Martins. Quantificação de micotoxinas na dieta TYMR em explorações de vacas leiteiras com surto de patologias de origem digestiva e mastites. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 10.
66. Maria Inês Viseu Taborda. Práticas de manejo num sistema de intensificação reprodutiva ESTRELA em ovinos” - Relatório de Estágio. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. July 20.
67. Mariana Chichorro Ferreira de Almeida. Oxigenoterapia hiperbárica na síndrome de resposta inflamatória sistémica em cães. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. March 24.
68. Mariana Laranjeira Tavare. Avaliação da classificação morfológica de caprinos da Raça Serrana. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. April 20.
69. Mariana Morgado Lopes. Estudo da infeção por *Neospora caninum* em explorações de bovinos leiteiros do concelho de Barcelos – evolução da infeção entre 2009 e 2021. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 8.
70. Marisa Isabel Pais Dias. Cirurgia de animais de companhia - Apresentação de casos cirúrgicos do foro dos tecidos moles – Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 15.

71. Marta Alexandra Pereira Marques. Medicina e cirurgia de animais de companhia. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. October 7.
72. Marta Catarina Rodrigues Alves. Artroscopia como método de diagnóstico e de tratamento na doença do processo coronóide medial no Cão. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. July 19.
73. Marta Lopes Andrade. Estudo de práticas de manejo numa unidade piscícola semi-intensiva de dourada e robalo. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. June 23.
74. Mathilde Sylviane Jacqueline Fernandes. Maneio reprodutivo intensivo da fêmea equina - Relatório de Estágio. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Ecember 14.
75. Micaela Machado Loio Andrade Talina. Caracterização de uma exploração de bovinos leiteiros na região do Alentejo – Relatório de Estágio. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. July 11.
76. Mónica Bello da Motta Kienzle. Tratamento de feridas cutâneas com pele de Tilápia do Nilo (*Oreochromis niloticus*) em cães e gatos: estudo piloto. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. October 4.
77. Paulo Alexandre Amorim Roriz. Intervenção médico veterinária num centro de reprodução de psitacídeos em vias de extinção e em contexto de clínica através da Medicina Preventiva. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 16.
78. Pedro Emanuel Ferreira Valentim. Using infrared thermography imaging to assess cattle welfare using eye temperature as indicator. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. April 21.
79. Pedro Guilherme Devezas de Matos. Using real-time ultrasonography to determine the subcutaneous fat relative growth of immunocastrated, surgically castrated and intact Bísaro pigs. Mestrado em Engenharia Zootécnica, UTAD, Vila Real. May 4.
80. Pedro Miguel Baptista Neves. Estudo comparativo de métodos de avaliação morfológica do fémur. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 28.
81. Raquel Soares da Rocha. Cirurgia Torácica e Abdominal no Cão – Apresentação e discussão de casos clínicos. Mestrado Integrado em Medicina Veterinária da Licenciada UTAD, Vila Real. Movember 23.
82. Sara Cristina Carvalho Marques teixeira. Estudo e aplicabilidade de terapia com laser em casos de tendinites e desmites. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. October 27.
83. Simone de Fátima Magalhães Couto. Cirurgia ortopédica de animais de companhia - Descrição e discussão de casos clínicos. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 2.
84. Sofia Isabel da Costa Marques Duarte Godinho. Avaliação microbiológica e teor em sal de preparados de carne à venda para consumo. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. December 16.
85. Susana de Fátima Ribeiro Gomes, Acompanhamento da rotina laboratorial no laboratório de patologia clínica do hospital veterinário da Universidade de Trás-os-Montes e Alto Douro. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. February 22.
86. Tamára Zarrete Vilela. Ocorrência de patologia podal nas províncias de Salamanca e Corunha, Espanha - Uma análise clínica e epidemiológica. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. November 15.
87. Tiago André Minhava Monteiro. Inspeção sanitária de reses abatidas para consumo. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. June 9.
88. Tito Ezequiel Almeida Silva. Atuação médico-veterinária em centros de recuperação de animais selvagens - a experiência no CERVAS vs Centre de Fauna de Torreferrussa. Mestrado Integrado em Medicina Veterinária, UTAD, Vila Real. Ocotber 21.

Organization of Events

During 2022, researchers from CECAV organize and participate in the organization of several events.

The INIAV, Polytechnical Institute of Bragança and CECA organized the members collaborated in the an Iberic Congress that was held at UTAD.

10th Iberian Congress on Prions.
May 24 – 25.
UTAD, Vila Real, Portugal.

The CECAV members also collaborated in the organization of some events which were held in Portugal.

XIV Jornadas de Genética e Biotecnologia/IV Jornadas Ibéricas de Genética e Biotecnologia.
February 20 – 22.
UTAD, Vila Real, Portugal.

Prevention of nosocomial infections and antimicrobial resistance: One Health perspective. Online.
March 10.
UTAD, Vila Real, Portugal.

Curso de Medicina Dentária de Equídeos. Online.
April - May.
UTAD, Vila Real, Portugal

Workshop “*Ecografia Reprodutiva em bovinos*”.
Septembre 24 – 25
UTAD, Vila Real, Portugal.

Jornadas de Ciências Animais e Veterinárias.
November 21.
ESA-IPVC Viana do Castelo, Portugal.

Jornadas de Avicultura
November 25– 26
UTAD, Vila Real, Portugal.