

Associate Laboratory for Animal and Veterinary Sciences Emergent Infectious Diseases and Zoonosis - Big Data

Faculdade de Medicina Veterinária da Universidade de Lisboa, NOV 29th-30th 2023 | Auditório B

PROGRAMME

NOV 29th, Wednesday

08:30 Registration

09:00 Opening Session

Esmeralda Delgado, vice-president of the Faculdade de Medicina Veterinária, Universidade de Lisboa

Susana Guedes Pombo, director of Direção Geral de Alimentação e Veterinária (DGAV)

Luis Lopes-da-Costa, director of AL4AnimalS

Alexandre Leitão, coordinator of thematic line 2 of AL4AnimalS

09:30 SESSION: Image | Chair: Andrew Hemphill, U Bern

Image data analysis and interpretation: machine learning dimensions

Keynote speaker: **Adrian Hehl** | Institute of Parasitology, Vetsuisse Faculty, University of Zurich, Switzerland

10:15 Free oral communications

Enhancing research on endometrial physiology and pathophysiology in postpartum dairy cows with laser capture microdissection

Gonçalo Pereira

10:35 Coffee break and poster viewing

11:00 Poster oral short presentations | Chair: António Duarte, ULisboa; Isabel Pereira da Fonseca, ULisboa

Decoding the genomic landscape of *Staphylococcus aureus* isolated from chicken bursitis: unraveling antibiotic resistance and virulence mechanisms

Patricia Poeta

Phenotypic characterization of *Enterococcus* spp. isolated from chickens for human consumption

Patricia Poeta

Antibiotic resistance profile in *Escherichia coli* isolated from livestock: Focus on rabbits and pigs in food animals

Patricia Poeta

Bats, a beacon of hope in antimicrobial resistance

Patricia Poeta

Biofilms in cat-derived *Pseudomonas aeruginosa*: insights into formation and implications

Patricia Poeta

Bioinformatics designing of an epitope-based vaccine for Bovine Genital

Campylobacteriosis

Maria Elisabete Silva

Comparison of Skin Prick Tests (SPT), Intradermal Tests (IDT) and In Vitro Tests in the Characterization of Insect Bite Hypersensitivity (IBH) in a Population of Lusitano Horses: “Contribution for Future Implementation of SPT in IBH Diagnosis”.

Vera Pessoa

Ex-Vivo Permeation Of P28, an Azurin Derived Cell-Penetrating Peptide, to Enhance the Ocular Delivery of Erythropoietin Encapsulated into Nanoparticles

Gonçalo Santos

First Evaluation of the Use of Foxim as a Contribute to the Control of Gasterophilus intestinalis Burden in Horses at Pasture: a Pilot Study

Teresa Rodrigues

Production of parasitic recombinant proteins for combination therapy against schistosomiasis

Maria João Gouveia

Climatic factors and parasite infection in dogs and cats of the Azores islands

Romana Teixeira

Detection of Canine Vector-Borne Diseases agents in Galgo Español used as hunting dogs in Alentejo, Portugal

Maria Francisca Esteves

Ticks (Ixodidae) collected on cattle and tick-borne pathogens at traditional housing systems in Huambo, Angola

Esmeralda Inácio

Toxoplasma gondii: experimental infection and study of the immune and inflammatory response using different genotypes

Inês Fançony

Toxoplasma gondii and Mental Health: Reinforcing the Link

Maria Manuel Fernandes

Overview of Cryptosporidium spp. and Giardia spp. in animals in Portugal in a three-year period

Mariana Louro

Searching for Cryptosporidium infection in bats from Brazil

Pedro Andrade

Encephalitozoon Cuniculi Seroprevalence and Analytical Trends in the Population of Pet Rabbits Attending FMV-Ulisboa Veterinary Teaching Hospital

Ana Reinho

13:00 Lunch

14:30 SESSION: Omics | Chair: **Adrian Hehl**, U Zurich; **Telmo P. Nunes**, ULisboa

Microbiome and antibiotic resistance

Keynote speaker: Isabel Gordo | Fundação Calouste Gulbenkian - Instituto Gulbenkian de Ciência, Evolutionary Biology Group

15:15 Application of differential affinity chromatography coupled to MS and proteomics for the identification of drug targets and for studies on the mode of action of anti-parasitic drugs

Invited speaker: Andrew Hemphill | Institute of Parasitology, Vetsuisse Faculty, University of Bern, Switzerland

15:35 Applications of -omics to the study of host-pathogen interactions in animal diseases: ruminant apicomplexans parasites as an example

Invited speaker: Luis Miguel Ortega-Mora | SALUVET Group, Animal Health Department, Faculty of Veterinary Sciences, Complutense University of Madrid, Spain

15:55 Genomics for sustainability: identifying rare mutations of interest by the exploration of local genetic resources in Portuguese-speaking African countries

Invited speaker: Andreia Amaral | Escola de Ciência e Tecnologia, Universidade de Évora; Centre for Interdisciplinary Research in Animal Health (CIISA), Faculty of Veterinary Medicine, University of Lisbon; Associate Laboratory for Animal and Veterinary Sciences (AL4Animals)

16:15 Coffee break and poster viewing

16:45 SESSION: Disease surveillance (1st PART) | **Isabel Gordo**, FCG IGC; **Fernanda Dórea**, SVA Sweden
Free oral communications

Interoperability structure for farm data sources and databases to monitor and manage antimicrobial consumption in animal production - the case for USAM SuLei.

João Niza Ribeiro

Environmental Contamination and Staff Colonization by Carbapenem-Resistant Gram-Negative Bacteria in Small Animal Veterinary Practices

Joana Moreira da Silva

Carriage of Carbapenemase and ESBL-producing Escherichia coli in dogs and cats in veterinary care and co-carriage with their owners

Juliana Menezes

Exploring trends of resistance of Klebsiella spp. in companion animal infections: a three-year study

Laura Fernandes

Biological and genetic characterization of Echinococcus implications for dynamics of transmission

António Castro

Encephalitis Project

José Manuel Correia da Costa

19:00 Dinner

09:00 SESSION: Disease surveillance (2nd PART) |

Luis Ortega-Mora, SALUVET U Complutense Madrid; Yolanda Vaz, DGAV Lisboa

Data-driven early disease detection: automated workflows and decision-support in animal health surveillance

Keynote speaker: Fernanda C. Dórea | Global Project Coordinator, FAO & National Veterinary Institute (SVA), Sweden

09:45 Little Stories About Increasing Quantities of Big Data: A Data Analyst's Perspective

Invited speaker: Paulo Jorge Nogueira | Escola Nacional de Saúde Pública, Universidade Nova de Lisboa

10:05 Detection and quantification of excessive mortality events in Portuguese bovine populations

Invited speaker: Telmo Nunes | Faculdade de Medicina Veterinária, Universidade de Lisboa

10:25 Coffee break and poster viewing**10:45 Free oral communications****Estimating Lagged Risks of Temperature Exposure: Insights from Hospital Admissions for Infectious and Parasitic Diseases**

Maria Oliveira

Feline Immunodeficiency Virus Hospitalization: Insights from a Comprehensive Epidemiological Database using Predictive Modelling

Miguel Maximino

C Reactive Protein/Albumin Ratio as a SRIS Indicator in Dogs with Parvovirus

Diana Lopes

Evaluation of SARS-CoV-2 susceptibility in cats: serological survey for antibodies against the virus

Isa Moutinho

Unravelling (new) neurotropic viruses - AL4animals Project Outline

Líbia Zé-Zé

Examination of a herd experiencing Neospora caninum-associated abortion by a mouse monoclonal antibody-based competitive ELISA

João Crisóstomo

Immunomagnetic separation method for identification of Toxoplasma gondii oocysts in environmental samples

Susana Sousa

Toxoplasma gondii detection in pre-harvested vegetables in the North of Portugal

Cláudia Marques

Uncovering Zoonotic Toxoplasma Gondii Genetic Diversity and its Implication on Toxoplasmosis Pathogenesis – A One Health Approach (AL4animals Project Management Framework)

Cláudia Marques

12:45 Closing Session**13:00 Lunch**