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 AL4AnimnalS
Alexandre Leitão, coordinator of thematic line 2 of AL4AnimnalS

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 comsuption
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 Reisinho

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) |**
Chair: **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**

NOV 30th, Thursday

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