

VIII WORKSHOP



17th SEPTEMBER 2021

ICBAS - University of Porto
Salão Nobre

TO BE HELD BOTH IN PERSON* AND VIRTUALLY

9h00 a.m.

Western European Time Zone (WET)

Mandatory registration via the following link:

<https://forms.gle/qTQ4hdkpPZXjNwmp9>

*Limited seats available

About the Animal Science Doctoral Programme

The Doctoral Programme in Animal Science aims to promote advanced training in the field of Animal Science through research. This programme was designed to achieve levels of excellence, with the supervision of researchers associated with research institutions, including several associated laboratories of recognized merit at national and international levels in the different specialities of Animal Science.

The Institute of Biomedical Sciences Abel Salazar (ICBAS) is a Faculty of the University of Porto recognized for its multidisciplinary characteristics within the Life Sciences, which is reflected in its innovative educational, scientific and cultural project, that presides over the formation of the institution. Being the only Portuguese School, which offers courses in Medicine and Veterinary Medicine in parallel with Biochemistry, Bioengineering and Aquatic Sciences, ICBAS is particularly well placed to effectively contribute to the new challenges of Animal Science: the sustainable production of safe and healthy animal food products, using innovative production techniques able to respect animal welfare, increase efficiency and protect the environment.

The SANFEED Programme (Sustainable Animal Nutrition and Feeding) is a branch of the ANIMAL SCIENCE Programme in an industrial setting. It has been funded by the Portuguese Foundation for Science and Technology (FCT) since 2014/2015 and is coordinated by ICBAS. SANFEED establishes a unique collaboration between three exceptionally strong R&D institutions of international excellence in the University of Porto (ICBAS, CIMAR & REQUIMTE), and ten highly selected industrial partners with strong R&D activity (AGROS, ALGAPLUS, ALLMICROALGAE, ALLTECHADITIVOS, CAVC, ADM PORTUGAL S.A., PREMIX, SEA8, SENSE TEST, SOJA DE PORTUGAL and SPAROS).

HOST INSTITUTIONS



SANFEED INDUSTRIAL PARTNERS



FUNDING



AGENDA

09:00 • WORKSHOP OPENING

Henrique Cyrne Carvalho (ICBAS Director)

Scientific Committee of the Doctoral Programme in Animal Science:

Luísa Valente (ICBAS / CIIMAR)
António Mira da Fonseca (ICBAS / REQUIMTE-LAQV)
Ana Rita Cabrita (ICBAS / REQUIMTE-LAQV)
Benjamín Costas (CIIMAR / ICBAS)
Mária Leonor Nunes (CIIMAR)

Accompaniment Committee of the Doctoral Programme in Animal Science:

Luísa Valente (ICBAS / CIIMAR)
Luís Mira Vieira (ICBAS)
Joana Fernandes (ICBAS / REQUIMTE-LAQV / SOJA DE PORTUGAL)
Ricardo Pereira (ICBAS / CIIMAR / CBQF-UCP)

09:15 • **THE ANIMAL SCIENCE DOCTORAL PROGRAMME IN ICBAS - UNIVERSITY OF PORTO, ASSOCIATE RESEARCH CENTERS AND INDUSTRIAL PARTNERS**, Luísa Valente (Animal Science Doctoral Programme Director)

SESSION I

Chairs: Cristina Velasco (CIIMAR) & Inês Valente (REQUIMTE-LAQV / ICBAS/ FCUP)

09:30 • **Plenary lecture: INSECTS AS NEW PROTEIN SOURCES FOR FOOD AND FEED**, Daniel Murta (ENTOGREEN, INGREDIENT ODYSSEY S.A.)

10:15 • **Oral presentation:** Impact of defatted *Tenebrio molitor* on nutritional, organoleptic and sensory quality of market-sized European sea bass (*Dicentrarchus labrax*), Ana Basto (ICBAS / CIIMAR / UVIGO)

10:30 • **Oral presentation:** Nutritive value and palatability of microalgae species in dog feeding, Joana Fernandes (ICBAS / REQUIMTE-LAQV / SOJA DE PORTUGAL)

10:45 • **Oral presentation:** Algae blend in dog food: Effects on palatability, digestibility and faecal end-fermentation products, Cátia Mota (ICBAS / REQUIMTE-LAQV / ALGAPLUS / ALLMICROALGAE)

11:00 • **COFFEE BREAK & POSTER SESSION**

Chairs: Alexandra Correia (ICBAS / i3S) & Rita Azeredo (CIIMAR)

11:45 • **Oral presentation:** European seabass response to air exposure: impact of dietary inclusion of bioactive blood hydrolysates, Daniela Resende (ICBAS / CIIMAR / CBQF-UCP / SENSE TEST)

12:00 • **Oral presentation:** Innate immune-related gene expression profiles in European seabass (*Dicentrarchus labrax*) bath challenged with *Tenacibaculum maritimum*, Inês Ferreira (ICBAS / CIIMAR / IBMC / i3S)

12:15 • **Oral presentation:** Microalgae-induced cytokine and reactive oxygen species production by bovine monocyte-derived macrophages, Ana Pedro (ICBAS / i3S / REQUIMTE-LAQV / CAVC / ADM Portugal)

12:30 • **Pitch presentation:** Search for biomarkers of resistance in *Ruditapes decussatus* to *Perkinsus olseni* parasite infection by shotgun proteomics, João Estêvão (ICBAS / CIIMAR)

12:40 • **LUNCH**

SESSION II

Chairs: Sónia Gomes (ICBAS) & João Albuquerque (i3S)

14:00 • **Plenary lecture: DEFINING A HEALTHY DIET: IT'S NOT JUST ABOUT THE NUTRIENTS**, Pedro Moreira (FCNAUP)

14:45 • **Oral presentation:** Optimizing extrusion and drying temperatures for maximizing the scavenging potential of aquafeeds with natural antioxidant inclusion from mango and pineapple peels, Ricardo Pereira (ICBAS / CIIMAR / CBQF-UCP)

15:00 • **Oral presentation:** Conventional *versus* pasture-based cow's milk: simulated human gastric lipolysis and lipid oxidation, Susana Pinho (ICBAS / REQUIMTE-LAQV / SOJA DE PORTUGAL)

15:15 • **Oral presentation:** Novel applications: hair glucocorticoids in a mammalian range expansion, Alexandre Azevedo (ICBAS / LEIBNIZ-INSTITUTE FOR ZOO- AND WILDLIFE RESEARCH)

15:30 • **Oral presentation:** Inclusion of macro- and microalgae in European seabass (*Dicentrarchus labrax*) diets: effects on intestinal microbiota, Mariana Ferreira (ICBAS / CIIMAR)

15:45 • **Pitch presentation:** Immune and intestinal benefits of krill meal and krill oil in Pacific white shrimp (*Litopenaeus vannamei*) diets, Carla Teixeira (ICBAS / CIIMAR / SPAROS)

15:55 • **ROUND TABLE: "One Health"**

Chair: Manuel Vilanova (ICBAS / i3S)

Participants: Mayumi Thais Delgado (SONAE MC), Luís Pinho (ICBAS / SVAExpLeite, Lda.), Maria Leonor Nunes (CIIMAR), Pedro Moreira (FCNAUP) & Lourenço Ramos Pinto (CIIMAR)

16:50 • **BEST POSTER, ORAL AND PITCH PRESENTATION AWARDS**

Jury: Maria Teresa Dinis (CCMAR-UALG), Maria Leonor Nunes (CIIMAR) & Luís Mira Vieira (ICBAS)

17:00 • **WORKSHOP CLOSING**

POSTER SESSION

Poster 1 • Evaluation of different Nile tilapia body composition models, Andreia Raposo (ICBAS / SPAROS)

Poster 2 • Improving animal health and aquaculture sustainability through green and circular economy concepts, Ana Garcia (ICBAS / CIIMAR)

Poster 3 • Acute inflammation response of European seabass (*Dicentrarchus labrax*) juveniles fed tryptophan supplemented diets under crowding conditions, Diogo Peixoto (ICBAS / CIIMAR / UCA)

Poster 4 • Local and systemic immune response of gilthead seabream *Sparus aurata* juveniles fed microalgae-derived β -glucans, Bruno Reis (ICBAS / CIIMAR / SPAROS / SOJA DE PORTUGAL)

Poster 5 • Microplastic occurrence in European seabass *Dicentrarchus labrax* produced in a recirculation aquaculture system (RAS): a case study, Ricardo Matias (ICBAS / CIIMAR)

Poster 6 • Studying the prokaryotic interactions in a recirculating aquaculture unit of sole (*Solea senegalensis*), Diana Almeida (ICBAS / CIIMAR / SEA8)

Poster 7 • Finding biomarkers for subacute ruminal acidosis in dairy cows by in vitro studies, Liliana Cordeiro (ICBAS / REQUIMTE-LAQV / AGROS UCRL / ALLTECHADITIVOS)

