

ANIMAL SCIENCE DOCTORAL PROGRAMME WORKSHOP 2023



FRIDAY, 13rd OCTOBER

**Cooperativa Agrícola de Vila do
Conde - Rua da Lapa, 293
4480-757 Vila do Conde**

Mandatory registration via WEBPAGE:

<https://animalscience-phd.pt/>

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

António Rodrigues Balazeiro (CAVC)

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)
Maria Leonor Nunes (CIIMAR)

Accompaniment Committee of the Doctoral Programme in Animal Science:

Luísa Valente (ICBAS / CIIMAR)
Sofia Costa Lima (ICBAS/REQUIMTE)
Isabel dos Santos (ICBAS / REQUIMTE)
Ricardo Matias (ICBAS / CIIMAR)

SESSION I – IN ENGLISH

Chairs: Jorge Dias (Sparos) & Rita Cabrita (ICBAS / REQUIMTE-LAQV)

09:15 • Plenary lecture 1: The importance of using net energy values in feed formulation - **Johan Schrama** (WUR, Netherlands)

10:00 • Oral presentation 1 Improving fish growth and composition models - tools to optimize fish nutrition and rearing practices – **Andreia Raposo** (ICBAS/SPAROS)

10:15 • Oral presentation 2 Unveiling shrimp hydrolysate as a novel protein source for pet food – **Joana Fernandes** (REQUIMTE-LAQV/ICBAS/SORGAL)

10:30 • Oral presentation 3 Dietary algae blend modulates the in vitro rumen fermentation depending on the inclusion level and the inocula basal diet – **Cátia Mota** (REQUIMTE-LAQV/ICBAS)

11:00 • COFFEE BREAK & POSTER SESSION

Chairs: Marta Monteiro (ICBAS / CIIMAR) & Margarida Maia (ICBAS / REQUIMTE-LAQV)

11:30 • Oral presentation 4 Impact of insect hydrolysates supplementation on diet palatability, digestibility and faecal characteristics of adult dogs – **Daniela Leal** (REQUIMTE-LAQV/ICBAS)

11:45 • Oral presentation 5 Tenacibaculum maritimum can boost an inflammatory response in European seabass (*Dicentrarchus labrax*) upon peritoneal injection but cannot trigger tenacibaculosis disease– **Inês Ferreira** (ICBAS/CIIMAR/ i3S)

12:00 • Oral presentation 6 Effects of Pineapple By-products in Aquafeeds: Influence on the Stress Response of European Seabass– **Ricardo Pereira** (CIIMAR/CBQF/ICBAS)

12:15 • Oral presentation 7 Dietary supplementation of tryptophan alleviates gene expression changes induced by stress and inflammation in the hypothalamic-pituitary-interrenal (HPI) axis of a teleost – **Diogo Peixoto** (CIIMAR/ICBAS/UCA)

12:30 • Oral presentation 8 From seashore to seafood: A study into the effects of *Aster tripolium* inclusion on *Penaeus vannamei* health– **Ana Garcia** (CIIMAR/ICBAS)

12:45 • Oral presentation 9 Tolerance signatures of selection of *Ruditapes decussatus* against *Perkinsus olseni* infection– **João Estêvão** (CIIMAR/ICBAS)

13:00 • LUNCH & POSTER SESSION

14:30 • Oral presentation 10 Boosting fish robustness: algae feeds as a promising strategy for enhancing intestinal health and performance– **Mariana Ferreira** (CIIMAR/ICBAS/NORD)

14:45 • Oral presentation 11 How do consumers perceive farmed fish and how to improve that perception? A literature review– **Daniela Resende** (ICBAS/CIIMAR/SenseTest/GreenUPorto)



SESSION II – IN PORTUGUESE (EM PORTUGUÊS)

15:00 • Palestra Plenária 2: A inteligência Artificial no Meio Científico e nas Empresas–**Carlos Soares** (FEUP)

15:45 • O programa doutoral em Ciência Animal do ICBAS - Universidade do Porto – um exemplo de uma relação bem-sucedida entre instituições de I&D e parceiros industriais, Luísa Valente (Animal Science Doctoral Programme Director)

16:00 • MESA REDONDA: CIÊNCIA ANIMAL - AS LIGAÇÕES ENTRE ACADEMIA E INDÚSTRIA

Moderadora: Luísa Valente (ICBAS /CIIMAR)

Participantes: António Bob dos Santos (FCT Board Member); António Isidoro (CEO, Soja de Portugal); Helena Abreu (AlgapLus), Ingrid Van Dorpe (CEO, Premix); Jaime Piçarra (IACA), Jorge Dias (CEO, Sparos), Ana Gomes (CAVC)

17:45 • BEST PARTICIPANT, POSTER AND ORAL PRESENTATION AWARDS

18:00 • SESSÃO DE ENCERRAMENTO
Henrique Cyrne Carvalho (ICBAS Director)

PÓSTERES

- Immunostimulatory capacity of grapeseed extracts as feed additives in European seabass (*Dicentrarchus labrax*) juveniles – **André Cunha** (CIIMAR/ICBAS/ GreenCoLab)
- Innate immune response and disease resistance of European seabass (*Dicentrarchus labrax*) juveniles after *Tetrasetimis* sp. extracts dietary supplementation – **Paulo Santos** (CIIMAR/ICBAS/ GreenCoLab)
- Microplastics and metals in European seabass from different aquaculture systems: dietary exposure and toxicological risks for humans - **Ricardo Matias** (ICBAS/CIIMAR)
- Effects of dietary methionine supplementation on European seabass mucosal immune response and disease resistance – **Inês Carvalho** (CIIMAR/ICBAS)
- Innovative hydrolysates as functional nutritional supplements to promote seabass robustness and flesh quality addressing the European zero-waste strategy – **Luciano Santos** (CIIMAR/ICBAS/CBQF/ETSA)