

# VII WORKSHOP



**18<sup>th</sup> SEPTEMBER 2020**

**ICBAS - University of Porto**

**TO BE HELD REMOTELY ON ZOOM**

**Western European Time Zone (WET)**

Mandatory registration via the following link:

<https://tinyurl.com/formularioworkshopciencianimal>

## 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, ALGApplus, Allmicroalgae, Alltechaditivos, CAVC, INVIVONSA PORTUGAL, Premix, Sea8, SenseTest, Soja de Portugal and SPAROS).

## HOST INSTITUTIONS



## SANFEED INDUSTRIAL PARTNERS



## FUNDING



## AGENDA

### 09:00 • WORKSHOP OPENING

Henrique Cyrne Carvalho (ICBAS Director)

#### Scientific Committee Doctoral of the Programme in Animal Science:

Luísa Valente (ICBAS-UP / CIIMAR)

António Mira da Fonseca (ICBAS-UP / REQUIMTE)

Ana Rita Cabrita (ICBAS-UP / REQUIMTE)

Benjamin Costas (CIIMAR / ICBAS-UP)

Leonor Nunes (CIIMAR)

#### Accompaniment Committee Doctoral of the Programme in Animal Science:

Luísa Valente (ICBAS-UP / CIIMAR)

Luís Mira Vieira (ICBAS-UP)

Luís Baião (ICBAS-UP / CIIMAR / SENSETEST)

Vitor Silva (ICBAS-UP / CIIMAR / SORGAL)

### 09:15 • THE ANIMAL SCIENCE DOCTORAL PROGRAMME IN ICBAS - UNIVERSITY OF PORTO, ASSOCIATE RESEARCH CENTERS AND INDUSTRIAL PARTNERS - INTRODUCTION

#### SESSION I

Chairs: Elisabete Matos (B2E CoLAB) & Ana M. Pereira (ICBAS-UP)

09:50 • **Plenary lecture:** Nutritional management of chronic enteropathies in dogs, *Giacomo Biagi (School of Agriculture and Veterinary Medicine, University of Bologna)*

10:20 • **Oral presentation:** Targeted metabolomics characterization of biological samples of dairy cow, *Liliana Cordeiro (REQUIMTE/LAQV | AGROS UCRL | ALLTECHADITIVOS)*

10:35 • **Oral presentation:** Exploring the benefits of natural and synthetic antioxidant in diets for European sea bass *Dicentrarchus labrax*, *Ricardo J. Pereira (CIIMAR | ICBAS-UP)*

10:50 • **Pitch presentation:** Microbial community monitoring in a recirculating aquaculture system, *Diana Almeida (ICBAS-UP | CIIMAR | SEA8)*

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

Chairs: Margarida Maia (ICBAS-UP) & Lourenço Ramos-Pinto (CIIMAR)

11:45 • **Oral presentation:** Beyond cortisol – glucocorticoid ratios in an endangered mammal, *Alexandre Azevedo (Leibniz-Institute for Zoo- and Wildlife Research | ICBAS-UP)*

12:00 • **Oral presentation:** Dietary oxytetracycline treatment can modulate gut health condition in the Nile tilapia (*Oreochromis niloticus*), *Carla Teixeira (CIIMAR | ICBAS-UP | SPAROS)*

12:15 • **Oral presentation:** Nile Tilapia body composition models and calibration methods, *Andreia I. G. Raposo (ICBAS-UP | SPAROS)*

12:30 • **Pitch presentation:** Impact of *Tenebrio molitor* larvae meal on muscle growth of European seabass (*Dicentrarchus labrax*), *Ana Basto (CIIMAR | ICBAS-UP)*

#### SESSION II

Chairs: Joana Silva (Allmicroalgae) & Marina Machado (CIIMAR)

14:00 • **Plenary lecture:** Healthy fish for healthy people: role of aquaculture in achieving global goals, *Dusan Palic (Faculty of Veterinary Medicine, Ludwig-Maximilians University of Munich)*

14:30 • **Oral presentation:** Improving immune function through animal nutrition: could customized diets be the future? *Ana R. V. Pedro (I3S | ICBAS-UP | REQUIMTE/LAQV)*

14:45 • **Oral presentation:** Effect of natural extracts as modulators of growth performance and oxidative status in fish, *Maria Xavier (CCMAR | CIIMAR | ICBAS-UP | SPAROS)*

15:00 • **Oral presentation:** Inclusion of blood hydrolysates in European seabass (*D. labrax*) diets: impact on nutrient retention and fish resistance to *T. maritimum* infection, *Daniela Resende (ICBAS-UP | CIIMAR)*

15:15 • **Oral presentation:** Algal blend: Effects on feed intake, growth performance and whole-body composition of European seabass (*Dicentrarchus labrax*) juveniles, *Cátia S. C. Mota (REQUIMTE/LAQV | ICBAS-UP)*

15:30 • **Pitch presentation:** Feeds with a micro- and macroalgae blend to increase fish robustness, *Mariana Ferreira (CIIMAR | ICBAS-UP)*

#### 15:40 • ROUND TABLE

##### “University – Industry Technology Transfer”

Chair: Elisabete Matos (Coordinator of B2E CoLAB)

#### Participants:

*Joana Resende (Pro-Rector of U. Porto for Strategic Planning | Director of UPTEC & Coordinator of UPin)*

*Joana Silva (Plant Manager of Allmicroalgae)*

*Sara Magalhães (Sales & Technical Manager of Soja de Portugal S.A.)*

*Ana Catarina Guedes (CTO & Co-founder of ISS – Inclita Seaweed Solutions)*

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

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

#### 17:00 • WORKSHOP CLOSING

NOTE: The agenda refers to Western European time zone (WET)

## POSTER SESSION

**Poster 1** • Dietary supplementation with *Gracilaria sp.* by-products modulates stress response, antioxidant and immune systems in gilthead seabream (*Sparus aurata*) exposed to crowding, *Francisca Silva-Brito (CIIMAR | ICBAS-UP)*

**Poster 2** • Microbiome in poultry: influence of nutritional factors, *Vitor Silva (ICBAS-UP | CIIMAR)*

**Poster 3** • Systemic immune responses of gilthead seabream *Sparus aurata* juveniles fed microalgae-derived beta-glucans, *Bruno Reis (SPAROS | SORGAL | CIIMAR | ICBAS-UP)*

**Poster 4** • Protective role of skim milk on intestinal oxidative stress and inflammation, *Susana Pinho (LAQV/REQUIMTE | ICBAS-UP)*

**Poster 5** • Impact of presentation on liking, acceptance and sensory profiling of sea urchin gonads from the North Atlantic coast of Portugal, *Luís F. Baião (ICBAS-UP | CIIMAR | SENSE TEST)*

**Poster 6** • Novel functional ingredients in pet food - a multifactorial study of alternative diets for dogs, *Joana Guilherme-Fernandes (REQUIMTE/LAQV | ICBAS-UP)*

**Poster 7** • *Tenecibaculum maritimum* pathogenesis: crosstalk between host and pathogen and beyond, *Inês A. Ferreira (CIIMAR | ICBAS-UP | IBMC)*

