



V WORKSHOP

Animal Science Doctoral Programme

September 18, 2018

Salão Nobre, ICBAS-UP

Free but mandatory registration

link:

<https://goo.gl/forms/O7m59T4Jbi2LUL962>

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 Instituto de Ciências Biomédicas de Abel Salazar (ICBAS) is recognized for its multidisciplinary characteristics within the Life Sciences, which is reflected in its innovative educational, scientific and cultural project, that presided over the formation of the institution. Being the only Portuguese School which offers courses in parallel with the Medicine and Veterinary Medicine, along with many others in the fields of biochemistry, of Bioengineering and Aquatic Sciences, ICBAS is particularly well placed to effectively contribute to the new challenges of Animal Science: the production of safe food, sustainably and efficiently healthy and free of waste, ensuring that the animal production techniques used meet the animal welfare and the environment.

The SANFEED Programme (Sustainable Animal Nutrition and Feeding) is a Doctoral ANIMAL SCIENCE Programme in an industrial setting funded by the Portuguese Foundation for Science and Technology (FCT) that started in the academic year of 2014/2015 and is coordinated by ICBAS from the University of Porto. 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, Alltechaditivos, CAVC, INVIVONSA PORTUGAL, Premix, Sea8, SenseTest, Soja de Portugal and SPAROS).

POPH PD-F FCT PhD PROGRAMMES

HOST INSTITUTIONS

U. PORTO
INSTITUTO DE CIÊNCIAS BIOMÉDICAS ABEL SALAZAR
UNIVERSIDADE DO PORTO

requimte
rede de química e tecnologia

ciimar
Centro Interdisciplinar de Investigação
Marinha e Ambiental

SANFEED INDUSTRIAL PARTNERS

agros
DESDE 1949
UNIÃO DE COOPERATIVAS

SOJA DE PORTUGAL
desde 1943

ALGA+

invivo
Animal Nutrition and Health

Alltech®
...naturally

sparos
I&D nutrition in
aquaculture

**Cooperativa Agrícola
de Vila do Conde**

seas

PREMIX

sensetest
Sociedade de Estudos de Análise Sensorial
a Produtos Alimentares, Lda.



AGENDA

10:00 • Registration

10:30 • WORKSHOP OPENING

Scientific Committee Doctoral of the Programme in Animal Science: *António Mira da Fonseca (REQUIMTE/ICBAS-UP), Luísa Valente (CIIMAR/ICBAS-UP), Júlio Carvalheira (CIBIO/ICBAS-UP), Paulo Vaz Pires (ICBAS-UP) & Ana Rita Cabrita (REQUIMTE/ICBAS-UP), SANFEED Advisory Board President: Jorge Dias (SPAROS), UTAD Animal Science Doctoral Programme Coordinator: Luís Mendes Ferreira (CITAB/UTAD) & PhD Student: Ana Margarida Pereira (REQUIMTE/ ICBAS-UP/ SORGAL/ Alltech)*

SESSION I – Chairpersons: *Salette Reis (REQUIMTE/FFUP) & Inês Valente (REQUIMTE)*

10:45 • Plenary lecture: Livestock 4.0: the potential role and impact of (bio)chemical markers and sensors in the next generation of livestock farming systems, *Hugo Oliveira, (INL)*

11:15 • Effects of the nutritive value of base forage on milk production and income over feed costs, *(Isabel Santos (REQUIMTE/ICBAS-UP/CAVC)*

11:30 • Genetic parameters for reproductive and longevity traits in Bísaro pigs, *Gustavo Paixão (CECAV/UTAD)*

11:45 • Methane concentrations in dairy-cattle buildings of northwest Portugal, *Ana Raquel Rodrigues (REQUIMTE/ ICBAS-UP/ CAVC/AGROS)*

12:00 • Use of infrared thermography imaging to monitor stress-related responses by lambs fed with *Lupinus* diet, *Mariana Almeida (CECAV/UTAD)*

12:15 • The effect of organic and inorganic selenium supplementation in puppies' growth – preliminary results, *Ana Margarida Pereira (REQUIMTE/ ICBAS-UP/ SORGAL/ Alltech)*

12:30 LUNCH & POSTER SESSION

SESSION II – Chairpersons: *Ana Paula Mucha (CIIMAR/FCUP) & Elisabete Matos (SORGAL)*

14:15 • Plenary lecture: Microalgae for animal feed: an overview *Joana L. Silva (Allmicroalgae)*

14:45 • Potential application of agar waste from *Gracilaria* sp., *Francisca Silva-Brito (CIIMAR/ICBAS-UP/ALGA+)*

15:00 • Volatile composition and sensory characteristics of *Paracentrotus lividus*, *Luis Baião (CIIMAR/ICBAS-UP/ SenseTest)*

15:15 • Improving growth performance of fish larvae through early nutrition, *Maria Xavier (CIIMAR/ICBAS-UP/ CCMAR/ SPAROS)*

15:30 • Modulation of growth and bone status by dietary trace mineral supplementation in early stage *Solea senegalensis* *(Michael Viegas, CIIMAR/ICBAS-UP/SPAROS/ INVIVONSA)*

15:45 • Life cycle assessment of animal feed ingredients produced from poultry by-products, *Inês Campos (CIIMAR/ ICBAS-UP/SORGAL)*

16:00 • COFFEE-BREAK & POSTER SESSION

ROUND TABLE “Circular Economy”- Chairpersons: *Jorge Dias (SPAROS) & Fausto Freire (ADAI-LAETA/ U.Coimbra)*

16:20 • Introduction: *Fausto Freire (ADAI-LAETA/ U.Coimbra); Participants: Luis Conceição (SPAROS), Joana L. Silva (Allmicroalgae), Hugo Oliveira (INL), Salette Reis (REQUIMTE/FFUP), Ana Paula Mucha (CIIMAR/FCUP), Francisca Silva-Brito (CIIMAR/ICBAS-UP/ALGA+) & Ana Raquel Rodrigues (REQUIMTE/ICBAS-UP/CAVC/AGROS)*

17:20 • BEST POSTER AND ORAL PRESENTATION AWARDS
Jury: *António Rocha (ICBAS-UP), Lúcia Saraiva (REQUIMTE/ FFUP) & Ingrid Van Dorpe (Premix)*

17:30 • WORKSHOP CLOSING

POSTER PRESENTATIONS

Age but not sex affects hair cortisol levels in a free-ranging population of Egyptian mongoose (*Herpestes ichneumon*), *Alexandre Azevedo (IZW/ICBAS-UP)*

Gut health improvement in fish and shrimp through fortified diets: focus on inflammatory condition, immune status and microbiota diversity, *Carla Teixeira (CIIMAR/ICBAS-UP/SPAROS)*

Habitat use by 0-group European flounder *Platichthys flesus* in a nursery area, *Cláudia Mendes (CIIMAR/ICBAS-UP/IECS)*

Effects of microalgae species and production lot on in vitro rumen fermentation parameters, *Cátia Mota (REQUIMTE/FCUP) & Denis Meehan (REQUIMTE/UTAD)*

Modelling biofilm microbial community to optimize water quality and fish health in a marine recirculating aquaculture system, *Diana Almeida (CIIMAR/ICBAS-UP/Sea8)*

Demographic structure and genetic diversity of the endangered Bísaro pig, *Gustavo Paixão (CECAV/UTAD)*

Using lipid nanoparticles to deliver lysine across the digestive tract of the dairy cow, *João Albuquerque (REQUIMTE/ICBAS-UP/ PREMIX)*

Identification and detection of biomarkers for carbohydrates and proteins fermentation pattern in ruminant animals, *Liliana Cordeiro (REQUIMTE/ICBAS-UP/AGROS/Alltech)*

Short-term feeding with arginine and citrulline improves the gilthead seabream (*Sparus aurata*) immune status, *Lourenço Ramos-Pinto (CIIMAR/ICBAS-UP/SPAROS)*

Dietary tryptophan deficiency and supplementation compromises European seabass immune status, inflammatory mechanisms and disease resistance - a molecular approach, *Marina Machado (CIIMAR/i3S/IBMC/ICBAS-UP)*

Peroxisome proliferator-activated receptors (ppars) in *Colossoma macropomum*, *Renato Ferraz (CIIMAR/ICBAS-UP)*

Nutrition and the innate immune system: modulation of bovine dendritic cells and macrophages immune response by dietary supplements of microbial origin, *Rita Pedro (i3S/IBMC/REQUIMTE/ICBAS-UP/INVIVONSA/CAVC)*

Microbiome in poultry: influence of nutritional factors, *Vitor Silva (CIIMAR/ICBAS-UP/SORGAL)*

Modulating the protein profile and technological value of milk, emphasizing on casein enrichment through a nutritional approach, *Susana Pinho (REQUIMTE/ICBAS-UP/SORGAL)*