

GAIN Workshop

Novel aquafeeds

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 773330



Novel concepts and solutions for more eco-efficient aquafeeds

Organized By GAIN project with support from H2020 projects PerformFISH, AqualMPACT, MEDAID, AQUAVITAE and NewTechAqua; and project SUSHIN (Italy)

Purpose: The purpose of this Workshop is present and discuss novel developments of knowledge on novel fish feeds that support eco-intensification of the European aquaculture industry, providing training to professionals on this topic, including aspects of value creation and sustainable use of by-products and side streams from aquaculture, fisheries and agro-industries.

Target groups: Professionals in the aquafeed value chain (e.g., Junior and Senior staff involved in R&D, formulation and technical support), and research institutions (e.g., Lecturers, Researchers, PhD students, post-docs) across the enlarged European Union and other countries.

Venue: Online, 21 and 22 September 2021 (9.30 – 12.30 CEST)

Day 1 (21 September)

Part 1: Introduction – what are sustainable aquafeeds?

- Welcome (Roberto Pastres, UNIVE)
- Sustainable & eco-efficient ingredients and aquafeeds (Jorge Dias, SPAROS)

Part 2: Novel ingredients

Strengths and Weaknesses

- Yeast and bacterial proteins (Fabio Brambilla, Naturalleva); Sachi Kaushik)
- PAPs from agroindustry by-products (Tiago Aires, Sorgal; Luisa Valente, Univ. Porto/CIIMAR)
- By-products from aquaculture (Vasilis Karalazos, BIOMAR; Brett Glencross, IFFO)
- Micro and macro-algae (Andrea di Biase, Veronesi; Ana Teresa Gonçalves, GreenColab)
- Mineral and Vitamin sources (Phelly Vasilaki, IRIDA; Antony Prabhu, IMR)
- Challenges for a sustainable supply (Richard Newton, Univ. Stirling)
- Round-table Discussion (Speakers and participants)















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Day 2 (22 September)

Part 3: Alternative fish feed formulations

Results for the industry

- Results from GAIN project (Luis Conceição, SPAROS; Jaume Pérez, CSIC)
- Results from PerformFISH project (Marisol Izquierdo, ULPGC)
- Results from AqualMPACT project (Daniel Montero, ULPGC)
- Results from MEDAID project (Alicia Estevez, IRTA)
- Results from SUSHIN project (Gloriana Cardinaletti, Univ. Udine)
- Round-table Discussion (Speakers and participants)

Part 4: Novel tools to assess feed performance (50')

Where are we and how to progress

- Molecular Biomarkers (Ana Teresa Gonçalves, GreenColab; Jorge Fernandes, Nord Univ.)
- Microbiome analysis (Carla Piazzon, CSIC)
- Behaviour monitoring integrated with other tools (Jaume Pérez, CSIC)
- Simulation models (Ana Nobre, SPAROS; Edouard Royer, UNIVE)
- Round-table Discussion (Speakers and participants)

Expected Results:

- Trained junior professionals with a in-depth perception on the state-of-the art and future challenges in formulation and production of novel, sustainable and cost-effective fish feeds, with focus on the interaction of current formulation trends (plant-rich, alternative feedstuffs, functional additives) feed processing constraints, resulting in improved results in fish performance;
- Identification of trends in novel formulation by the Industry;
- o Identification of synergies among projects & researchers;
- Improved dialogue between researchers and industry on improvement of aquafeeds eco-efficiency.











