



We are delighted to invite you to the AQUABIOPRO-FIT final conference. Over two days, we will present new technologies to recover high-quality proteins, fish oil, minerals and bio-actives ingredients from European aquaculture and fisheries side stream. These nutrients were subsequently used to produce dietary supplements to improve fitness and health.

Researchers will discuss the methods used to recover nutrients from side streams, the optimization of the processing methods for tunicates, and the development of supplements, as well as the outcomes of the clinical trials. This event will be held online on 13 and 14 December 2022.

Make sure to [check the programme](#) for a full overview of the sessions and presentations and [register here!](#)

### PARTNERS



Project Coordinator



ARISTOTLE  
UNIVERSITY OF  
THESSALONIKI



Research & Education  
for Environment & Health



RESEARCH AND  
DEVELOPMENT CENTER



centro tecnológico da carne



ΠΑΝΕΠΙΣΤΗΜΙΟ  
ΚΡΗΤΗΣ  
UNIVERSITY OF  
CRETE



[www.aquabioprofit.eu](http://www.aquabioprofit.eu)



@aquabioprofit



This project has received funding from the Bio Based Industries Joint Undertaking (JU) under grant agreement No 790956. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio Based Industries Consortium.

## Tuesday 13 December 2022

### Challenges in processing marine side stream materials

Session 1	14:00	Welcome and introduction to the AQUABIOPRO-FIT conference <i>Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
	14:10	Possibilities and challenges in the processing of marine side stream materials <i>Tone Aspevik, NOFIMA, Norway</i>
	14:25	Challenges of Pelagia, a leading producer of pelagic fish <i>Jorgen Seliussen, Pelagia, Norway</i>
	14:40	Nutritional characterization of sea bass and sea bream side streams <i>Roberto Bermúdez, Centro Tecnológico da Carne, Spain</i>
	14:55	Accelerated Solvent Extraction and Pulsed Electric Fields for valorization of rainbow trout ( <i>Oncorhynchus mykiss</i> ) and sole (Dover sole) side streams: Protein content, molecular weight distribution and antioxidant potential of the extracts <i>Min Wang, University of Valencia, Spain</i>
	15:10	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
	15:25	End of session

### Extraction of bioactive compounds from marine side stream materials

Session 2	15:25	Role of extracts obtained from rainbow trout and sole side streams on modulating bacterial and anti-inflammatory activities <i>Min Wang, University of Valencia, Spain</i>
	15:40	The latest industrial trials to improve Salmon collagen extraction quality by a marine ingredients company <i>Espen Sunde and Zouhir el Marsni, Seagarden, Norway</i>
	15:55	Pulse Electric Field technology to obtain antioxidant extracts from fish residues <i>Paulo E.S. Munekata, Centro Tecnológico da Carne, Spain</i>
	16:10	Cell culture experiments <i>Tone-Kari Ostbye, NOFIMA, Norway</i>
	16:25	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
	15:25	End of session

### Suitability of marine side stream materials for feed and food

Session 3	16:40	Bioaccessibility evaluation of antioxidants and minerals (Mg, Ca, P, Fe, Zn, Se) extracted from rainbow trout and sole side streams by pulsed electric field (PEF) using the INFOGEST in vitro static gastrointestinal digestion model <i>Min Wang, University of Valencia, Spain</i>
	16:55	AQUABIOPRO-FIT E-learning platform for biotechnology professionals <i>Anna Kujumdzieva, BioIntech, Bulgaria</i>
	17:10	Tunicates as fish feed ingredients <i>Tor Andreas Samuelsen, NOFIMA, Norway</i>
	17:25	Influence of the replacement of pork backfat with microencapsulated fish oil on the nutritional quality and sensory features of pork liver pâtés <i>Mirian Pateiro, Centro Tecnológico da Carne, Spain</i>
	17:40	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
	17:55	End of session

## Wednesday 14 December 2022

### For a healthy body and environment

#### Session 1

14:00	Welcome and introduction to the AQUABIOPRO-FIT conference <i>Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
14:10	Environmental LCA for aquaculture and fisheries biomass residues and side streams <i>Leo Staccioli, ARDITEC, France</i>
14:25	Sensory properties: the challenges of products from fish side streams <i>Mats Carlehog, NOFIMA, Norway</i>
14:40	The suppression of inflammatory bowel disease with nutritional supplements containing protein hydrolysates from fish sidestreams in the model of DSS-induced colitis in mice <i>Ourania Kolliniati, University of Crete, Greece</i>
14:55	The AQUABIOPRO-FIT clinical studies: Nutritional supplements for body detoxification <i>Zoi Georgiou, Biognosis, Greece</i>
15:10	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
15:25	End of session

### Boost your confidence with healthy skin

#### Session 2

15:25	Social LCA aspects for aquaculture and fisheries biomass residues and side streams <i>Leo Staccioli, ARDITEC, France</i>
15:40	Fish sidestream-derived nutritional supplements that contain Collagen improve skin homeostasis and healing in a mouse model of epithelial wound healing <i>Ioanna Lapi, University of Crete, Greece</i>
15:55	Nutritional supplements for athletic performance <i>Vasilis Mougios, the Aristotle University of Thessaloniki, Greece</i>
16:10	The AQUABIOPRO-FIT Clinical studies: Nutritional supplements for skin and hair <i>Zoi Georgiou, Biognosis, Greece</i>
16:25	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
15:25	End of session

### Successful outcomes and economic potential

#### Session 3

16:40	Economic LCC for aquaculture and fisheries biomass residues and side streams <i>Jose Gallegos, ARDITEC, France</i>
16:55	The production of tunicates for human consumption by Marine Feed <i>Fredrik Noren, Marine Feed, Sweden</i>
17:10	Fish sidestream-derived protein hydrolysates suppress insulin resistance and development of diabetes by modulating the gut microbiome in a mouse model of diet-induced obesity <i>Maria Daskalaki, University of Crete, Greece</i>
17:25	The Aquabioprofit clinical studies: Nutritional supplement against stress and depression <i>Zoi Ifanti, Biognosis, Greece</i>
17:40	Panel discussion <i>Moderator: Katerina Kousoulaki, AQUABIOPRO-FIT Project Coordinator</i>
17:55	End of session