

AT A GLANCE

TITLE:
PROFIUS

CONSORTIUM:
6 partners

COORDINATOR:
Technical University of Denmark (DTU),
Denmark

DURATION:
10 October 2021- 30 September 2024

TOTAL COST:
€ 1,550,000

EU CONTRIBUTION:
€ 1,251,000



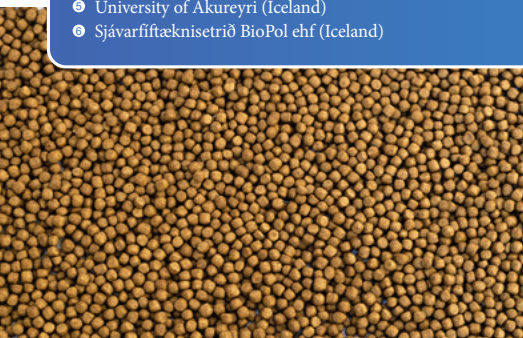
Preservation of underutilized fish
biomasses for improved quality,
stability and utilization

The PROFIOUS project has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement 817992. BlueBio - ERA NET co-fund scheme.



PROFIUS PARTNERS

- Technical University of Denmark (Denmark)
- AquaBioTech Limited (Malta)
- Norwegian University of Science and Technology (Norway)
- Royal Greenland Seafood (Denmark)
- University of Akureyri (Iceland)
- Sjóvarfitaeknisetrid BioPol ehf (Iceland)



PROFIUS

PROFIUS aims to address challenges in the supply chain related to lumpfish (roe and carcass) and tuna side-streams by developing preservation solutions for maintaining quality and improving utilization of the entire biomass. Improved preservation methods will be developed to enhance quality and shelf life of lumpfish roe and thereby reduce waste. A major bottleneck for success of further utilization of the side-streams from tuna is their short shelf life. PROFIOUS will study the processes responsible for the chemical and microbial deterioration of these side-streams and develop strategies to prevent them. Furthermore, PROFIOUS will look into new applications of lumpfish and tuna side-streams including logistics and development of gelatin extraction processes for lumpfish and development of fish feed based on tuna side-streams.

- Reduce waste in the fishery and food services sectors
- Produce gelatin for value-added products
- Reduce environmental impact of fish feed



Objectives of PROFIOUS

- Develop preservation solutions for the biomass.
- Develop new applications for lumpfish and tuna side-streams.
- Develop gelatin extraction processes for lumpfish.
- Develop fish feed based on tuna side-streams.

AT A GLANCE

TYPE:

Research SME

LOCATION:

Mosta, MALTA G. C.

CAPABILITIES:

R&D / Consultancy / Engineering

EXPERTISE:

Aquaculture / Marine Research
Blue Growth / Aquatic Environment



Who We Are

AquaBioTech Group is an international consulting, engineering and R&D company with over 20 years of experience in aquaculture, fisheries and other aquatic sciences. Located in the center of the Mediterranean on the island of Malta, although operating globally with clients and projects in over fifty-five countries.

The vast majority of the organisation's work is related to the marine or aquatic environment, encompassing aquaculture developments, market research/intelligence through project feasibility assessments, finance acquisition, project management, technology sourcing, technical support and training.



Our Role in the PROFIOUS Project

AquaBioTech Groups' tasks within the PROFIOUS project include:

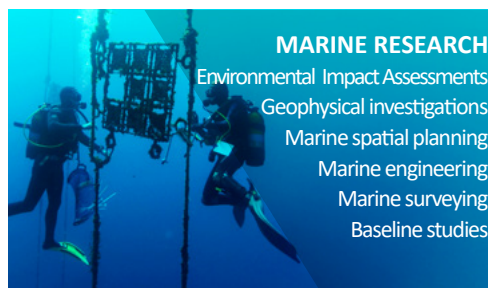
- Collect tuna side-streams from local farmers in Malta.
- Analyze composition, oxidative and microbiological status of tuna side-streams.
- Test the fish feed through feeding trials in Recirculating Aquaculture Systems (RAS).
- Investigate market possibilities for side stream ingredients.
- Coordinate the international communication and dissemination activities.
- Coordinate the development of a policy recommendation for national and EU level aquaculture regulatory bodies.

Our Research Activities



AQUACULTURE R&D

Fish & shellfish hatchery technology
Health & disease prevention
Nutraceutical development
new species development
Aquatic nutrition research
Production techniques



MARINE RESEARCH

Environmental Impact Assessments
Geophysical investigations
Marine spatial planning
Marine engineering
Marine surveying
Baseline studies



WATER TECHNOLOGIES R&D

Recirculation Aquaculture Systems
Aquaponics
Wastewater treatment
Energy efficiency
Sustainability
Innovation



AquaBioTech Group

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