



S2AQUA

Laboratório Colaborativo
Sustentável e Smart Aquaculture

S2AQUAcoLAB: A sustainable and smart aquaculture sector

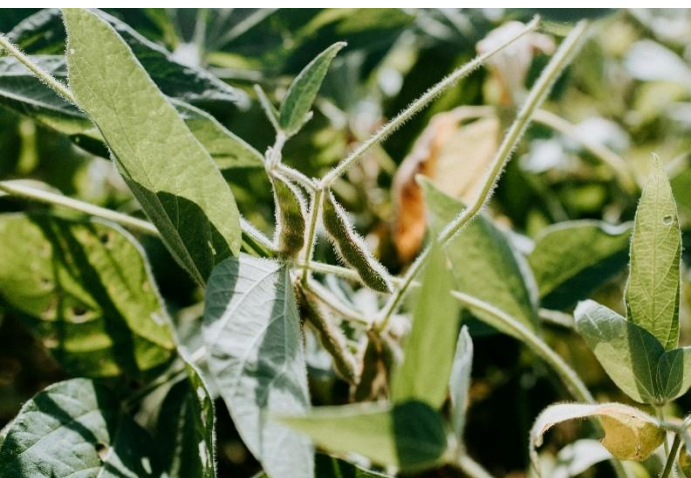


Priscila Goela

Successful R&I In Europe 2026 | 13th European Networking Event
Düsseldorf | 20 February 2026



HORIZON-CL6-2026-01-CIRCBIO-11: **Harnessing the unique properties of marine organisms to deliver sustainable blue bio-based products**



HORIZON-CL6-2026-02-FARM2FORK-03: **Boosting the competitiveness of protein crops in Europe**

➤ HORIZON-CL6-2026-01-CIRCBIO-11: Harnessing the unique properties of marine organisms to deliver sustainable blue bio-based products

Scope of the topic...

*“Develop safe and sustainable blue bio-based products, by exploring the use of the **unique physical, chemical and biochemical properties of biomolecules from marine organisms**”*

Our main expertise ...



Algae, Fungi



Fish



Bivalves /
invertebrates

- ✓ **Cultivation and maintenance of marine organisms under controlled conditions**, to optimize and improve the quality of production of compounds of interest
- ✓ Development and use of **marine organism cell lines** to evaluate the **bioactive potential** of identified compounds - growth potential, antioxidant capacity, immune response, antimicrobial activity

> HORIZON-CL6-2026-02-FARM2FORK-03: Boosting the competitiveness of protein crops in Europe

Our main expertise ...



- ✓ Evaluate the feasibility of **incorporating alternative ingredients**, namely protein derivatives, as a sustainable option for formulating balanced **feeds for aquaculture**.
- ✓ To develop and validate, through *in vivo* and *in vitro* tests, the **functional impact and digestibility of these new feeds** in the context of aquatic organism nutrition

Scope of the topic...

*“Explore and demonstrate innovative pathways for **converting protein crops’ by-products into safe feed and food sources.**”*

> Contribution to consortia



Aquaculture Stakeholders

Producers, feed companies, technology providers, to co-develop and test innovative production methods and feed formulations



Research Institutions

With expertise in marine biology, fish health, genetics and circular economy.



Partners from other backgrounds

Foster knowledge exchange and enhance global competitiveness



Production Optimization

- Broodstock selection and management
- Larval and Juvenile supply
- Feeding and nutritional requirement optimization
- Algae Production



Bio-indicators of Animal Health and Welfare

- Molecular methodologies to improve aquaculture
- Monitoring diseases and disorders
- Use of *in vitro* systems for aquaculture development



Climate Change

- Adaptation to climate change of cultures and infrastructure
- Toxins and aquaculture
- Physical-chemical contaminants



New Products, Technological Development and Market

- Improvement and development of new culture systems, methodologies, materials and engineering
- Boosting the circular economy, farmed seafood bioeconomy and blue biotechnology
- Inclusive, safe, healthy and trustful farmed seafood systems and products



On-site Training

- Technical training of companies' employees
- Academic internships of students in S2AQUAcoLAB companies
- Aquaculture postgraduate course development

Thank You!

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**S2AQUA - Collaborative Laboratory, Association
for a Sustainable and Smart Aquaculture**

Private Non-for-Profit Association with focus on R&D

City: Olhão | Country: Portugal