

»»» NEWSLETTER 3 «««



BlueShellfish



February 2025

BlueShellfish

Solutions to prevent and mitigate the impacts of HABs in Aquaculture and Fisheries, in the context of global warming

»»» **BlueShellfish** aims to bring together specialists from different areas of knowledge who will develop joint research activities, which will collectively contribute to bring innovative solutions to fisheries and aquaculture industries, to mitigate the impact of HABs.

In this Edition

- 🍷 Events know what we've been doing
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- 🍷 Visits know our network



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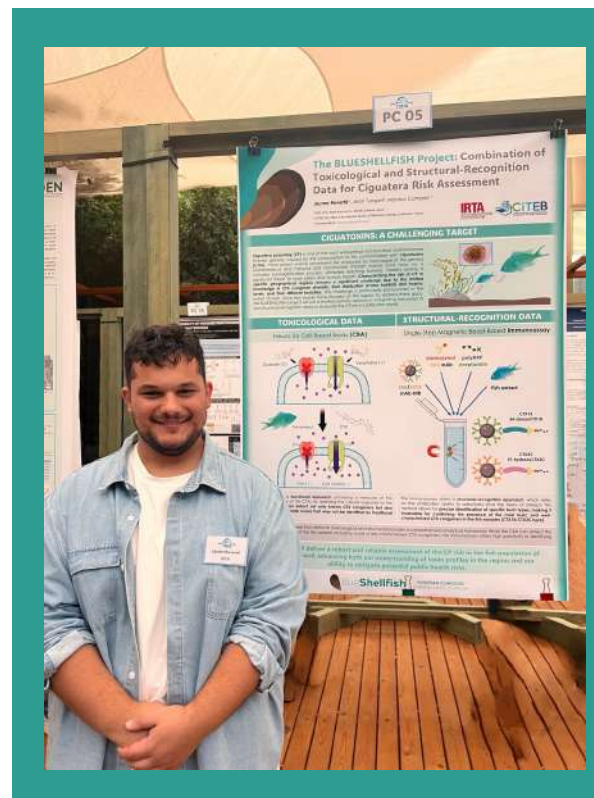
Project 101086234 — BlueShellfish

EVENTS

➤➤➤ XXVIII Transfrontier Meeting on Sensors and Biosensors

26th - 27th September 2024

The poster entitled “The BLUESHELLFISH project: Combination of toxicological and structural recognition data for ciguatera risk assessment” by researchers from IRTA (J. Reverté and M. Campàs) and CITEB (J. Turquet) was presented at the XXVIII Transfrontier Meeting on Sensors and Biosensors, which was held at La Ràpita (Spain) last September 26th-27th 2024. The poster described how we tackle the challenging detection of ciguatoxins in fish samples with a dual (toxicological and structural) approach.



SEMINAR

DID YOU KNOW?

One of the main aims of the Project is the **improvement of seafood safety** through strategies to promote the toxins' elimination from shellfish and other seafood species



»» OCCURRENCE OF HARMFUL ALGAL BLOOMS IN THE SOUTH-CENTRAL REGION OF CUBA

IPMA Algés, 12th December 2024

LECTURE

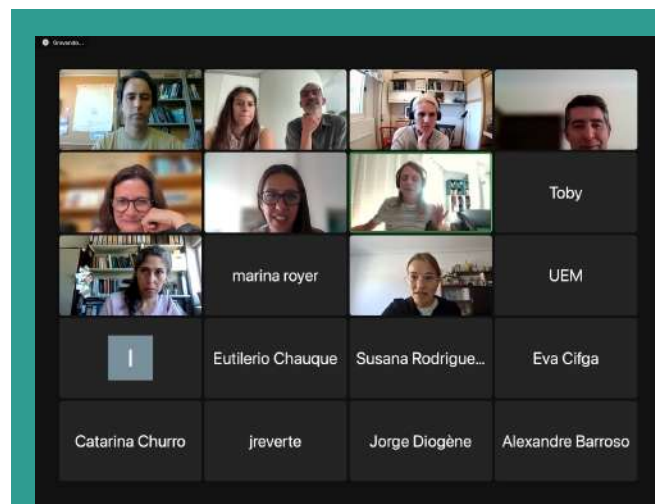


Dr. Angel R. Moreira González from the Centro de Estudios Ambientales de Cienfuegos (CEAC), Cuba, visited IPMA to share his expertise on harmful algal blooms (HABs) in the south-central region of Cuba. His presentation focused on the occurrence of HABs, the key species involved, and their toxicity, with a particular emphasis on *Vulcanodinium rugosum*, a dinoflagellate linked to cases of dermatitis in Cienfuegos Bay. The session provided valuable insights into the environmental and health impacts of these blooms, fostering knowledge exchange within the project consortium.

»» Mid-Term Meeting

12th, 13th and 17th September 2024

Our project's Mid-Term Meeting (MTM) was held on 12th, 13th and 17th September 2024. The meeting brought together the project officer (Marina Royer-Toupitsyna, from the European Commission), the coordinator and the consortium members to review progress, discuss ongoing work packages, address potential challenges, and plan the next steps for the project's successful implementation. It was a good moment of networking and Exchange of experiences between all participants



MEETING

PRINCIPLES OF HIGH-THROUGHPUT PROTEOMICS RESEARCH COURSE

13–15th December 2023

The "Principles of High-Throughput Proteomics Research" course introduced key methodologies in proteomics, focusing on sample preparation, fractionation techniques, and data analysis. Participants gained hands-on experience in interpreting complex proteomic data from shotgun studies, using Mass Spectrometry (MS) as the main research tool. ecotoxicology.








The course, that gathered graduate students and researchers, highlighted proteomics applications in health and environmental research, including the identification of disease biomarkers and the study of molecular mechanisms linked to toxicological effects.

Principles of
High-throughput
Proteomics
Research
Course

3rd -6th
December
2023

CEMUP
&
E2S | P.PORTO

More info and
Registration here:

For more information:
info@e2s@ffihp.it

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WORKSHOP

If you missed the course, don't worry. Stay tuned for future opportunities to enhance your understanding of Proteomics, mass spectrometry, and protein research.

Discover more [here!](#)



SECONDMENTS

➤➤➤ **Alexandre Barroso** (CIMAR → LiU)
Tomás Rodrigues (CIMAR → LiU)

During their time in Linköping, Sweden, Alexandre and Tomás conducted important proteomics analyses for their PhD research. Their work focuses on nematocysts and tissues of the sea anemone *Actinia fragacea*.

The expertise of LiU colleagues was essential for their learning, and their results were fundamental to the work they are developing.



➤➤➤ **Maria Turkina** (CIMAR → LiU)

Maria joined CIMAR in December 2023 and played a key role in the planning and execution of the course. "Principles of High-Throughput Proteomics Research." Her experience and clear communication were invaluable to the success of the program. We appreciate Maria's commitment to excellence and collaboration, and we look forward to future opportunities to work together to advance our research and educational programs.. Our recent Proteomics course, we delved into the research discipline dedicated to understanding proteins in biological samples.

The course covered protein expression, identification, and characterization of post-translational modifications (PTMs), highlighting their relevance to health and ecotoxicology.



VISITS

Luiz Mafra (UFPR → CIIMAR & IPMA)

Luiz Mafra visited CIIMAR and IPMA to exchange knowledge on the monitoring and analysis of toxins and microplastics. During his stay, he participated in sampling trials and delivered lectures at both institutions, contributing to the ongoing research efforts in this field.



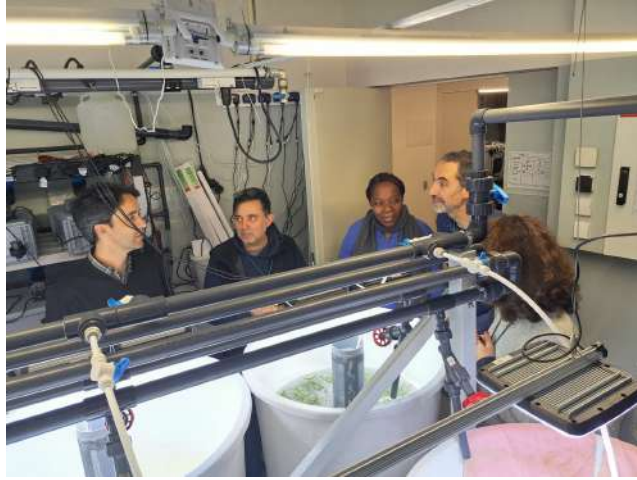
Estela Pires (UFPR → CIIMAR & IPMA)

Estela Pires visited CIIMAR and IPMA to conduct part of her PhD research. She carried out trials on mussels and microplastics and actively participated in several scientific activities. Her visit was a great opportunity to collaborate and share expertise with researchers at both institutions.



➤➤➤ **Pedro Reis Costa** (IPMA → CIMAR)
Valera Dias (UEM → CIMAR)

Pedro Reis Costa (IPMA) and Valera Dias (UEM) made a short visit to CIIMAR, where they explored the Bioterium of Aquatic Organisms. Their visit focused on macroalgae systems, enhancing collaboration and knowledge exchange in this research area.



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