



# UNIVERSITÀ POLITECNICA DELLE MARCHE

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**Supervisor:** Prof. Stefano Accorroni

Dept. of Life and Environmental Sciences



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**Activities**



Scientific activity focuses on Marine Botany, and in particular on the biology and ecology of marine microalgae:

- microalgae producing biotoxins and their effects on marine organisms
- the study of allelopathic interactions between benthic dinoflagellates and associated microalgal and macroalgal communities
- the influence of environmental factors on algal blooms
- the taxonomy of microalgae through microscopic and molecular techniques (including barcoding and metabarcoding)
- phytoplankton time series and their relationships with environmental parameters and climate changes (e.g. heatwaves, floods).





Main competitive research project awarded :

- 2023-2026: PRIN 2022. Emerging toxins in Italian seas and risks for human health (Tox-IT) (**Principal Investigator**).
- 2023-present: Applied Research Proposals 2021. Cyanotoxins in freshwater and marine ecosystems: toxins' identification, biological effects, trophic transfer and risk for the human health (CYANOBIO) (**Head of unit**).
- 2018-2021 Applied Research Proposals 2016. EMerging MEditerranean BIOtoxins in fish and shellfish products: methods for the identification of toxins and study on the mechanism of action, trophic transfer and potential risk for the human health (EMMEBIO) (**Principal Investigator**).
- 2013-2015 ENPI CBCMED – EU Project M3-HABS “Risk Monitoring, Modelling and Mitigation of Benthic Harmful Algal Blooms along Mediterranean coasts”.
- 2011-present LTER-Italy (The Italian Long-Term Ecological Research Network).



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Description

- Member of the board of Phycological Group of the Italian Botanical Society since 2020.
- Associate Editor, *Phycologia* (Taylor & Francis), the scientific journal of the International Phycological Society
- Tutor of 12 Master thesis (Bachelor's degree in Biological Sciences). Tutor of 14 Master thesis (Master's Degree in Marine Biology). Supervisor of 1 and co-supervisor of 2 PhD students
- ORCID: 0000-0002-1134-7849; h-index 27

 [Academic Profile](#)





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Staff, equipment and laboratories

## The laboratory of Marine Botany, DISVA - UNIVPM Staff



Full Prof.  
Cecilia Maria  
Totti



Assoc. Prof.  
Stefano Accoroni



Assoc.  
Prof. Fabio  
Rindi



Tech. Dr.  
Tiziana  
Romagnoli



Tech. Dr.  
Francesca  
Neri



PhD student  
Marika  
Ubaldi

Technical facilities: light and electron microscopies (EM); chambers for algal cultures; laboratory equipment for DNA extraction and amplification (PCR and qPCR); Imaging FlowCytobot (IFCB); High-Performance computing; departmental boat equipped for fieldwork in the sea; aquaria for growth of algal biomass; algal herbarium (ANC ALG) included in the Index Herbariorum of the International Association for Plant Taxonomy.





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Project idea



To develop a research plan integrating satellite data, IFCB, transcriptomics, and molecular and traditional approaches, in order to provide an overall view of algal biodiversity and related indexes. The new information produced in the project will guide environmental policies towards the accomplishment of the objectives of European biodiversity and monitoring plans.

...open to any other valuable and innovative project proposal

