Special Issue

Ecology, Diversity and Evolution of Diatoms

Message from the Guest Editors

Diatoms are diverse and prominent eukaryotic unicellular algae contributing up to 20% of the global primary productivity. They play a pivotal role in the marine food web and the biogeochemical cycles of carbon and silicates. Diatoms belong to the eukaryotic supergroup of Stramenopiles whose common ancestor is thought to derive from a secondary endosymbiotic event between a heterotrophic host and a red/green alga. This original evolutionary history has endowed diatoms with a peculiar genetic makeup and metabolism, contributing to their ecological success in contemporary oceans. Recent advances in next-generation sequencing, metabolomics, bioactivity screening, and co-culturing approaches have shed new light on the variety, biosynthetic pathways, activity, and ecophysiological roles of diatom metabolites. For this Special Issue, we invite academic and industry scientists to submit reviews and original research articles focusing on diatom metabolites in the context of diatom ecology, diversity, evolution, and biotechnological applications.

Guest Editors

Dr. Frederic Verret

Dr. Martha Valiadi

Prof. Dr. Jean-Luc Mouget

Deadline for manuscript submissions

closed (30 November 2023)

Marine Drugs

an Open Access Journal by MDPI

Impact Factor 5.4
CiteScore 10.1
Indexed in PubMed

mdpi.com/si/153805

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Message from the Editor-in-Chief

During the past few decades there has been an ever increasing number of novel compounds discovered in the marine environment. This is exemplified by the robust preclinical and clinical pipeline that currently exists for marine natural products. *Marine Drugs* is inviting contributions on new advances in marine biotechnology, pharmacology, chemical ecology, synthetic biology, and genomics approaches related to the discovery of therapeutically relevant marine natural products. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

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