



Metabolites of Marine Diatoms in Stress Adaptation and Cell Signaling

Guest Editor:

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Message from the Guest Editor

The productivity of diatoms is controlled by a number of environmental factors, many of which are currently undergoing substantial changes due to anthropogenic influences. In this scenario, the ecological success of diatoms depends on their resilience and their capacity to respond and maintain themselves in a state of survival under unfavorable conditions. Despite significant progress in the investigation of specific metabolic pathways in diatoms, still little is known about the metabolic events during their exposure to environmental stress conditions. Besides abiotic parameters, biotic factors such as infections by parasites have also been shown to play key roles in the physiological performance of diatoms. In particular the underlying mechanisms by which diatoms perceive and transduce biological signals to activate targeted defense responses are completely unknown. In this Special Issue, we want to explore all topics in relation to environmental stress acclimatization and adaptation of marine diatoms. This issue will cover numerous aspects ranging from biosynthesis and metabolite diversity to potential applications in pharmaceutical industry and aquaculture.





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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.

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