Special Issue

Multi-Omics Study of Marine Toxins

Message from the Guest Editor

Recent advances in omic technologies make it possible to characterize, in detail, marine toxins and their biological effects on prokaryotic and eukaryotic organisms. The purpose of this SI is to discuss various aspects of marine toxins' distribution and evolution, the effect of toxins on gene transcription, and changes in the cellular proteomes of prokaryotic and eukaryotic organisms by using "omics" technologies. Genomics and transcriptomics tell us about the structure, evolution and expression of the genome, proteomics provides information about the proteins present within cells, whilst metabolomics helps to identify and quantify the diversity of metabolites and metabolic networks within an organism and between different organisms. Competition between species for resources is the main factor structuring marine planktonic communities. Marine toxins can alter ecosystem processes, including primary production and nutrient cycling. It will be interesting to discuss the allelopathic functions of marine toxins because these molecules appear to target diverse and multiple physiological pathways in competitors.

Guest Editor

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Deadline for manuscript submissions

closed (25 July 2022)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/72741

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About the Journal

Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

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