



*toxins*



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## Marine Phytoplankton Toxins: Genomics, Distribution and Risk Assessment

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### Message from the Guest Editor

Harmful phytoplankton can produce toxins that may impact organisms including humans, as well as damage local fish and aquatic invertebrates. Increased abundances of toxic phytoplankton species can be attributed to natural processes that depend on meteorological conditions and hydrodynamics as well as anthropogenic factors. The structural diversity in different classes of marine phytoplankton toxins has initiated studies on the fields of chemical ecology, evolutionary biology, and molecular biology. Better understanding of the diversity of these toxins, the producing organisms, toxin-related genomics, and their global distribution will help in overcoming the gaps, and will help to answer fundamental questions relating to the evolution of toxin production in marine toxic phytoplankton.

This Special Issue is aiming to publish the latest research and development on diverse aspects of the harmful organisms. This issue will assemble comprehensive information about the diversity of marine phytoplankton toxins from different regions of the world, toxin-biosynthesis genes, and method development research that will accelerate the assessment of potential risk.



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## 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.

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