Special Issue

Marine Metabolites and Metal Ion Chelation

Message from the Guest Editor

Marine organisms have developed unique mechanisms for the acquisition, sequestration, and utilization of essential trace metals in the marine environment. Many marine secondary metabolites contain functional groups that can complex metals and a great number of marine natural products possess ion chelating ability, such as cyclic peptides, ionophores, siderophores, etc. Studies of isolation, structural elucidation, synthesis and properties of coordination of metal- chelating marine natural products is a topic of increasing interest nowadays due to their potential applications such as agents for medical uses, chelate contrast agents for molecular imaging, bioremediation, metal coordination in surface adhesion, etc. Although some of them may be involved in the uptake and transport of metal ions present in the marine environment, however the real reason of their production is not fully understood. Current investigation is also focused on their structures, dynamics and reactivities and on studies to establish their biological functions. As , I invite you to provide recent advances in all the aspects dealing with marine metabolites and metal ion chelation.

Guest Editor

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About the Journal

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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