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Advances in Marine Alkaloids

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closed (31 January 2020)

Message from the Guest Editors

The extreme environmental conditions found in the sea (e.g., low temperature, high pressure, reduced light, and the presence of predators) have led marine organisms to develop machinery translated in a diversity of compounds superior to those found in land-based systems. Nevertheless, the marine environment is still considered a rich underexploited source of compounds.

Alkaloids are among the most challenging compounds found in nature, because of the diversity of structural scaffolds arising from distinct amino acids, but also because of their biological effects. These basic nitrogen-bearing secondary metabolites are among the most active molecules, and it is not unusual to find them in various phases of human clinical trials for the treatment of different conditions. This Special Issue will address the advances in the chemistry, distribution, and application of alkaloids from marine organisms, covering well-characterized extracts to isolated compounds, the optimization of processes for the preparation of analogues using medicinal chemistry strategies, bioavailability, mechanisms of action, and toxicological features, to provide recent developments in marine alkaloids.



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Special Issue



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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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