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Genetic Approach and Data Mining in Discovery of Marine Natural Products

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Message from the Guest Editors

Marine-derived bioactive metabolites are gaining attention because of the growing demand due to their benefits and applications in several fields. To gain insights into what genes and pathways make these high-value compounds, several studies have sequenced the genomes, transcriptomes, proteomes, and metabolomes of a wide range of species of interest, which had led to an accumulation of a massive amount of data and the discovery of interesting molecules. However, considering the high diversity of species in marine environments compared to land, the discovery of active compounds of marine origin is still in its infancy. Exploring the existing data using computer-aided techniques and genetics is leading to the discovery of new active compounds, and this is likely just the beginning. The objective of this Special Issue is to report some of the recent developments in genetics and data mining fields of multi-omics for drug and active metabolite discovery. This Special Issue is open to marine organisms with a particular focus on micro/macroalgae and bacteria.



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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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