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Multomics and Machine Learning for the Discovery and Classification of Marine Specialized Metabolites

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Message from the Guest Editors

Dear Colleagues,

Once neglected, marine organisms have been demonstrated to be a fruitful source of marine-specialized metabolites with unique structures and bioactivities.

Third-generation sequencing techniques and open source FAIR metabolomics databases such as MASSIVE offer vast amounts of highly complementary data. Recent efforts linking metabolomics and genomics data have resulted in the paired-omics database that has started various multiomics research projects.

Additionally, analytical NMR and MS methods for the classification of whole metabolomes, as well as the structure elucidation of prioritized specialized metabolites, have been revolutionized by the implementation of machine learning techniques.

This Special Issue invites articles from both multiomics- and machine learning-driven studies on marine organisms, with a focus on marine-specialized metabolites discovery and metabolome classification. High-quality metabolomics-based studies are also welcome.

Prof. Dr. Raphael Reher
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Guest Editors



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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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