

Special Issue

Genome Mining and Discovery of Marine Bioactive Secondary Metabolites

Message from the Guest Editor

This Special Issue aims to highlight the pivotal role that genomic strategies play in revitalizing marine natural product discovery. We seek to showcase research that successfully bridges the gap between genetic prediction and the isolation of novel, functionally characterized compounds. We welcome contributions that explore the entire journey of these compounds, from BGCs to bioactive molecules. Topics of interest include, but are not limited to, the following:

- Novel marine bioactive compounds.
- Linking Biosynthetic Gene Clusters (BGCs) to new chemical structures.
- Activation of silent BGCs to uncover hidden metabolic profiles.
- Heterologous expression as a platform for producing and engineering marine natural products.
- Integrated metabolomics and genomics to accelerate the discovery of novel bioactives.
- Bioactive metabolites from underexplored marine sources.
- Characterization of bioactivities: Antimicrobial, anticancer, anti-inflammatory, and neuroprotective properties of newly discovered metabolites.
- Biosynthetic pathway elucidation for unique marine natural products.
- Ecological insights into the role of bioactive secondary metabolites in the marine environment.

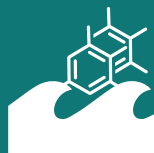
Guest Editor

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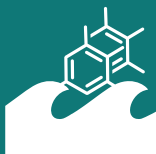


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About the Journal

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

Prof. Dr. Bill J. Baker

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