

Special Issue

Marine Bioactive Compound Discovery through OSMAC Approach

Message from the Guest Editor

Marine microorganisms have proven to be a source of novel natural products with variety biological activities. However, because of the limitations of the traditional natural product mining methods, the number of gene clusters potentially encoding the production of natural products and the actual number of chemically characterized metabolites for a given microorganism are widely different. In recent years, with the rapid development of gene sequencing technology and bioinformatics, cryptic metabolic pathways can be accessed using molecular techniques or cultivation-based approaches. The OSMAC approach (one strain—many compounds), based on modification of growth conditions, has proven to be a powerful strategy for the discovery of new cryptic natural products. The addition of chemical elicitors or epigenetic modifiers have also been used to activate silent genes. We particularly welcome articles that combine genomic, metabolomic, and epigenetic approaches with OSMAC for the characterization of marine microorganism secondary metabolites.

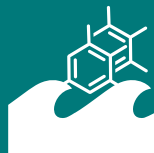
Guest Editor

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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

Prof. Dr. Bill J. Baker

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