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Genome Mining and Marine Microbial Natural Products

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we focus on the rich genomic resources present within the genomes of marine microorganisms and the use of recently developed tools and technologies to exploit this genetic richness, to facilitate the discovery or find new bioactive molecules with potential biopharmaceutical applications.

- Bioinformatic tools and their application in genome mining for secondary metabolites
- Genome mining approaches for the identification of novel secondary metabolites
- Merging ecology (physical, chemical factors or co-culture) with microbial genome mining for secondary metabolites' discovery
- Heterologous systems for the expression of gene clusters to identify novel metabolites
- Unlocking cryptic pathways, employing genomic based approaches
- Cutting-edge technology in genome editing and novel metabolites identification

Prof. Dr. Kui Hong

Prof. Dr. Changsheng Zhang

Prof. Dr. Alan Dobson

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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