Special Issue

High-Throughput Screening of Marine Resources

Message from the Guest Editors

The study of the marine environment has already delivered breakthrough discoveries such as anti-cancer drugs or research tools for cell biology. Nowadays, recent technical progresses are increasingly applied to the screening of marine resources (e.g., liquid handling, detection methods, and data analysis). The concept of high-throughput screening (HTS) originally emerged in the mid-1990s, in order to describe the process by which large chemical collections are tested in an automated fashion, to modulate the activity of druggable targets or, more recently, to confer detectable phenotypes to cultivated cells. Regarding the marine world, HTS is not limited to the discovery of new bioactive chemical scaffolds of a marine origin, but can also be applied to marine resources at large (e.g., genomes for the identification of genes of interest, species for morphology-based identifications, and metabolomes for the discovery of biosynthetic pathways). Advanced computational methods are now adapted to deploy such new approaches, and they will considerably and durably modify the analytical workflows.

Guest Editors

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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.

Editor-in-Chief

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