Special Issue

Bioprospecting of Marine Microalgae

Message from the Guest Editor

Marine microalgae represent an exceptionally diverse and promising resource for sustainable bioproduction. This topic focuses on their integrated production, encompassing optimized cultivation systems (like photobioreactors or open ponds) tailored for microalgae species, efficient harvesting, and downstream processing. Crucially, it combines this production with systematic bioprospecting. The integrated strategy aims to maximize the valorization of this biomass across a wide spectrum of applications. This includes exploiting its potential as a source of high-value nutraceuticals (e.g., omega-3 fatty acids, antioxidants), pharmaceuticals, natural pigments (like astaxanthin, phycocyanin), functional food, and applications in bioremediation and cosmetics. By linking efficient, scalable production directly with the identification and extraction of valuable components for diverse markets, this integrated model offers a pathway towards economically viable and environmentally sustainable utilization of marine microalgal resources.

Guest Editor

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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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