Special Issue

Biotechnological Applications of Marine Microalgae

Message from the Guest Editor

Marine microalgae hold a great potential in biotechnology. They represent a natural reservoir of industrially relevant chemicals, like carotenoids and fatty acids, and can be used for many applications, like as fertilizer in agriculture, as a source of biofuels, and more recently as bioengineering hosts for the production of useful biomolecules. However, they still need optimization to become economically competitive with more established biotechnological hosts like bacteria and yeasts. Synthetic biology approaches are nowadays providing useful tools and workflows to improve microalgal potential for biotechnology. This Special Issue invites articles focusing on microalgal applications in biotechnology, in various sectors like pharmaceuticals, nutraceutics, and cosmetics production, among others. We particularly welcome articles that combine advanced molecular biology and synthetic biology approaches for the optimization of algae as eco-sustainable biofactories of high-value compounds.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2025)

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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

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