Special Issue

Polysaccharides from Marine Environment

Message from the Guest Editor

Marine environments are a rich reservoir of natural products, particularly polysaccharides, playing a prominent role due to their wide-ranging biological and industrial applications. These marine-derived polysaccharides have demonstrated significant potential as antitumorals, anticoagulants, antivirals, and immunomodulants.

The structural diversity of marine polysaccharides is closely linked to their origin: marine animal polysaccharides include chitin, chitosan, chondroitin sulfate, and marine glycosaminoglycans; seaweeds polysaccharides are found in brown algae (fucoidan, alginate, and laminarin), red algae (carrageenan, agar), and green algae (ulvan); marine microbial sources can produce exopolysaccharides but also contain structural and intracellular polysaccharides. This diversity influences their functional properties and bioactivities, which are increasingly harnessed in the development of functional foods and pharmaceutical products.

This Special Issue invites contributions that advance understanding in all aspects related to marine polysaccharides and oligosaccharides—from extraction methods and structural analysis to their bioactivities and applications.

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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