



## Advances in Oligosaccharides and Polysaccharide Modifications in Marine Bioresources

Guest Editors:

**Dr. Yuya Kumagai**

Faculty of Fisheries Sciences,  
Hokkaido University, Hakodate,  
Hokkaido 041-8611, Japan

**Prof. Dr. Hideki Kishimura**

Faculty of Fisheries Sciences,  
Hokkaido University Hakodate,  
Hokkaido, Japan

**Prof. Dr. Benwei Zhu**

College of Food Science and light  
Industry, Nanjing Tech University,  
Nanjing, China

Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editors

Due to global climate change, environmental issues have become more conscious. Seaweeds play a major role in blue carbon, which fixes carbon to the ocean by taking in carbon dioxide through photosynthesis and producing polysaccharides. In addition to environmental problems, marine polysaccharides have various modifying groups and have been found to have different functionality from land plants. Marine polysaccharides have been used in foods and medicines. Recently, novel biocatalysis of polysaccharide-relating enzymes has been discovered. As a result, the functionality of oligosaccharides from marine polysaccharides has been clarified, e.g., health functionality such as anti-cancer, anti-inflammatory effect, and so on. This Special Issue aims to accumulate the knowledge of preparation, function, structure, and application of bioactive oligosaccharides and polysaccharides-relating enzymes from marine organisms. This Special Issue aims to contribute to the achievement of multiple goals of Sustainable Development Goals (SDGs) (No. 2, 3, 12, 14), and we would like to invite scientists to submit their latest research findings in this field. Comprehensive review papers are also welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Bill J. Baker

Department of Chemistry,  
University of South Florida, 4202  
E. Fowler Ave., CHE 205, Tampa,  
FL 33620-5250, USA

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Embase](#), [PubAg](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmacology, Toxicology and Pharmaceutics (miscellaneous)*)

## Contact Us

Marine Drugs Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/marinedrugs](http://mdpi.com/journal/marinedrugs)  
[marinedrugs@mdpi.com](mailto:marinedrugs@mdpi.com)  
X@Marine\_Drugs