Special Issue

Fucoidans: Structures-Based Bioactivities

Message from the Guest Editors

Fucoidans are a group of fucose-containing sulfated polysaccharides found in many species of brown seaweed. Fucoidans are highly bioactive seaweed substances with different structures. It is well known that the bioactivities of fucoidans largely depend on the contents of fucose and sulfate on the polysaccharide backbone structure. In addition, the molecular weight and mono-sugar composition are also important in the expression of fucoidans' bioactivities. In industrial applications, yield and extraction efficiency are also essential. Currently, however, further studies on the relationship between structure and bioactivity are critical to understand the functions and activities of fucoidans. This Special Issue is focused on the different bioactivities expressed by structures, including not only the basic composition but also the linkages of sugars and sulfate groups bound on the backbone, and their applications in functional and healthy foods, medicine, and cosmeceuticals. As the , we invite authors to contribute their latest research focused on structure-based bioactivities, in in vitro, ex vivo and in vivo experiments.

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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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