Special Issue

Marine Biomaterials with Surgical Applications

Message from the Guest Editors

There are a large number of situations, illnesses, external factors, etc. that cause human tissues to be damaged. The body is programmed to repair the damaged portion of the tissues but, unfortunately, these efforts result in tissue dysfunctionality and failure. When it come to this issue, large efforts in the scientific community are being carried out to develop new biomaterials for regenerative medicine. Different marine biopolymers have been explored for their potential application in cell therapy, tissue reparation and regeneration and cartilage tissue engineering. Collagen, alginate, chitosan, carrageenans and agarose are some of the most common marine biopolymers used in this area. One of the main advantages of marine biomaterials is their susceptibility to being modified to interact with cell receptors through conjugation with the corresponding ligands. They can also be combined with some other polymers to enhance their intrinsic properties, such as adhesiveness, to create stimuli-responsive systems, and they are extremely versatile in terms of their formulation in the form of hydrogels, sponges, micro and nanoparticles, beads and fibers, among others.

Guest Editors

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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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