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Biomedical Applications of Marine Biomaterials

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

Marine organisms can produce various novel chemical molecules, having high potential for drug discovery, and for this reason, they are considered a gold mine for biotechnological purposes. Chitosan derived from chitin, collagens and gelatins, and chondroitin sulfate and polysaccharides of algal origin such as alginate and fucoidan are widely used in the production of two- and three-dimensional scaffolds for tissue engineering in the creation of simple and composite biomaterials. In addition, marine biomineralized structures such as biosilica derived from diatoms and sponges, calcium carbonate from coral and mollusks, and hydroxyapatite from fish bones can be used as additives in the tissue regeneration field, while complex 3D chitin or spongin structures of porifera such as the calcium carbonate structures of corals can be a source of inspiration as bone mimicking biomaterial.

As the guest editor, I kindly invite colleagues to contribute with innovative research on biomedical and therapeutic applications of marine-derived biomaterials.

Dr. Marina Pozzolini
Guest Editor



mdpi.com/si/130144

Special Issue



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Editor-in-Chief

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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.

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