Special Issue

Marine Biomimetics

Message from the Guest Editor

Recent advances in structural biology, biochemistry, biomineralization, genomics, proteomics, and material sciences have resulted in the rapid development of biomimetics as a powerful scientific direction, oriented at solving technological challenges and the development of new nature-inspired technologies. Due to diversity of marine invertebrates and vertebrates, remarkable functional properties of their nano-organized, biomineralized structures seem to be an inexhaustible source of inspiration for modern materials science and biomaterial design. Especially, where there is strong interest in the combination of various inorganic nano-organized structures with biomacromolecules, including self-assembly and templating activity of diverse organic scaffolds. On the other hand, non-mineralized structures like byssus and related DOPA-based polymers are excellent examples for the development of bioinspired-adhesives. This Special Issue will collect novel research papers and original reviews focusing on creation of advanced bioinspired technologies inspired by marine organisms.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2019)

Marine Drugs

an Open Access Journal by MDPI

Impact Factor 5.4
CiteScore 10.1
Indexed in PubMed

mdpi.com/si/9485

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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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