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Nanofibers and Nanoparticles from Marine Biomaterials for Tissue Engineering, Drug Delivery and Other Biomedical Applications

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Message from the Guest Editors

Nanotechnology represents an emerging technological field in medicine and biomedical engineering. Nanostructured particulate and fibrous systems are attracting constantly increasing attention for the development of novel biomedical systems in tissue-engineering and drug-delivery applications. Various natural and synthetic polymers can be engineered in functionalized and modified hybrid nanostructures with the desired and necessary properties for targeted bioapplications.

Marine biopolymers are considered abundant, cost-efficient, and non-toxic materials, representing a rapidly growing sector of materials in the biomedical field, due to their high biocompatibility and biodegradability, and inherent biological properties.

This Special Issue aims to include original research articles and reviews on the design, development, and detailed characterization of marine-based nanostructured biomaterials with the potential for utilization in various biomedical applications as drug-release modifiers, bioadhesives, cell scaffolds, coatings, wound-dressing materials and tissue-engineering scaffolds.



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Special Issue



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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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