Special Issue

Electrospun Fibers and Materials for Tissue Repair, Replacement, and Regeneration

Message from the Guest Editors

The Special Issue aims to present the cutting-edge development of electrospinning techniques, electrospun fibers, and different materials, as well as their wide-range applications in tissue repair, replacement, and regeneration. Electrospun fibers have shown great promise mainly due to their capability of mimicking the structure, composition, and biological function of extracellular matrix. Therefore, they have been actively explored as fibrous scaffolds for the repair of tissue injuries including, but not limited to, nerve repair, vascular regeneration, wound healing, and bone/cartilage formation, as well as for the repair of tissue interfaces, etc. Various types of natural and synthetic materials have been applied for manufacturing medical devices in order to treat tissue injuries or diseases. Through the collection of papers in this Special Issue, the design ideas, preparation processes, and applications of electrospun fibers and materials will be integrated to provide innovative ideas in the field of tissue repair, replacement, and regeneration, offering valuable opinions for academic development and further clinical treatment.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)



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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the Journal of Functional Biomaterials (JFB) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. JFB seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

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