Special Issue

Novel Biomaterials for Tissue Engineering

Message from the Guest Editors

Advanced biomaterials are essential for tissue engineering, aiding in regenerating and repairing damaged tissues or organs. The integration of advanced biomaterials with diagnostic technologies is also crucial for real-time monitoring and feedback. For instance, incorporating sensors and imaging modalities into biomaterials will enable researchers to create materials that respond actively to environmental changes, enhancing therapeutic efficacy. This Special Issue explores the latest advancements in biomaterials and fabrication technologies tailored for regenerative medicine. Topics of interest include, but are not limited to, the following:

- Novel fabrication technologies;
- Cutting-edge features and design requirements of biofabricated structures;
- The development of innovative biomaterials;
- Stimuli-responsive materials for drug delivery systems;
- Self-assembling and self-healing materials for biomedical applications.

We encourage the submission that elucidate the current state of the art of advanced biomaterials in regenerative medicine and provide insights into the future directions of this field.

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About the Journal

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

Prof. Dr. Pankaj Vadgama
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