Special Issue

Fundamental Biomechanics in Implant Design and Bone Tissue Engineering

Message from the Guest Editors

This Special Issue invites interdisciplinary scientific research papers, reviews, and communications about the biomechanics of biomaterials for implants and tissue engineering, especially the latest manufacturing techniques, such as additive manufacturing. The objective of this issue is to understand the behavior of different biomaterials when inside the body. The mission of this issue is to focus the attention on mechanical, physicochemical, and biological characteristics and their importance in the interactions between biomaterials and living tissues, as well as studies on the preparation, performance, and use of biomaterials in biomedical devices in physiological environments. The scope of the Special Issue includes but is not limited to:

- **Biomechanics of implants**—the design and analysis of implants to repair or replace different organs, for example, for bone, dental, and tissue engineering and so on;
- **Tissue engineering and regenerative medicine**—biomaterial sciences, methods/technologies to engineer scaffolds from biomaterials, and scaffold-based tissue regeneration and visualization.

Guest Editors

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Deadline for manuscript submissions

closed (20 September 2023)

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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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