Special Issue

Three-Dimensional Printing and Biomaterials for Medical Applications

Message from the Guest Editors

This Special Issue serves as a multidisciplinary platform that brings together experts from bioengineering, material science, computer science, and clinical research, offering integrated perspectives that go beyond proof-of-concept to include reproducibility, scalability, and long-term functionality. The primary focus is on how the amalgamation of advanced biomaterials and 3D printing is transforming diagnostics, therapeutics, prosthetics, and regenerative medicine. This Special Issue aims to accelerate the adoption of cutting-edge research for 3D printing and biomaterials for personalized, smart medical solutions through the synergy of biomaterials science, AI, regenerative medicine, and 3D printing.

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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

Prof. Dr. Pankaj Vadgama
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