

## Special Issue

# 3D Printing Applications in Regenerative Medicine and Biomedical Devices

### Message from the Guest Editors

This Special Issue focuses on recent advances in 3D printing in regenerative medicine and biomedical devices. Unlike the existing production methods of cutting or removing materials, 3D printing is known as an additive manufacturing technology, which builds three-dimensional (3D) products by stacking many thin layers one by one. In particular, 3D printing technology which uses computer software to design and fabricate the constructs, as well as their internal architectures such as the pore size, pore shape, and porosity, and in which the interconnectivity of the structures can be freely controlled, has taken center stage among regenerative medicine and medical devices. In addition, through the use of patient medical data, this process can also make customized treatment a reality. This Special Issue seeks to publish work on various bio-fabrication technologies in medical applications, including, but not limited to, 3D printing and bioprinting, bio-chip, organ-on-a-chip, organoid, implants, medical devices and surgical simulation tools. Both original research articles and reviews are welcome for this Special Issue.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2024)



## Journal of Functional Biomaterials

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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.

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### Editor-in-Chief

Prof. Dr. Pankaj Vadgama  
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