

Special Issue

3D Bioprinting for Medical Applications

Message from the Guest Editors

Bioprinting is a rapidly developing field of tissue engineering and modern regenerative medicine. The intensive development of new technologies and biomaterials allows us to think about bioprinting entire organs and using them in clinical practice. Bioprinted organs and smaller models may also contribute to revolutionizing preclinical testing of new drugs and active substances. The possibility of testing new drugs on bioprinted models will not only reduce the number of animals used for research, but above all, it will help us to discover new opportunities for pharmaceutical sciences and basic research. However, despite numerous studies and reports, there is still much to discover, and this requires scientists to take an interdisciplinary approach to their research.

In this Special Issue, we would like to present a collection of articles detailing the latest developments and trends in 3D bioprinting research for medical applications, paying particular attention to the development of innovative bioinks, new cross-linking mechanisms, and cell viability and differentiation intended to create bionic constructs.

Guest Editors

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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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