Special Issue

3D Bioprinting Materials and Technologies for Tissue Engineering

Message from the Guest Editors

This Special Issue focuses on advances in **3D bioprinting materials and technologies** for broad applications in **tissue engineering**. It aims to showcase cutting-edge research that drives the development of functional, biomimetic tissues through innovative biofabrication strategies. Topics of interest include the design and optimization of **bioinks** and **biomaterials**, novel printing technologies, and multi-material fabrication approaches that enable precise control over tissue architecture and cellular microenvironments. Contributions that explore **stem cell integration**, **protein engineering**, **synthetic biology**, and **controlled release systems** for enhanced tissue regeneration are highly encouraged.

Guest Editors

Prof. Dr. Howard Matthew
Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, MI 48202, USA

Dr. Ruchi Sharma
Hettiaratchi's Laboratory, University of Oregon, Eugene, OR, USA

Deadline for manuscript submissions

15 December 2025

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/243522

Journal of Functional Biomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

mdpi.com/journal/jfb

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/journal/jfb

MDPI

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
School of Engineering and Materials Science, Queen Mary University of London, London, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Biomedical) / CiteScore - Q2 (Biomedical Engineering)