



Collagen-Based Materials for Biomedical Applications

Guest Editors:

Dr. Giorgia Montalbano

Department of Applied Sciences
and Technologies, Politecnico di
Torino, Torino, Italy

Dr. Priscila Melo

School of Engineering, Newcastle
University, Newcastle, UK

**Prof. Dr. Chiara Vitale-
Brovarone**

Department of Applied Science
and Technology, Politecnico di
Torino, 10100 Turin, Italy

Deadline for manuscript
submissions:

closed (20 March 2024)

Message from the Guest Editors

Collagen, the most abundant protein in mammalian tissues, is considered a strategic biomaterial in designing biocompatible constructs and devices for biomedical applications. Thanks to its high biocompatibility and the opportunity to actively support and guide cell activity, it represents a promising candidate for the regeneration of various tissues.

Based on the relevant role played by collagen in the biomedical field, this Special Issue aims at highlighting recent developments in this area, by emphasizing innovative strategies in the design of collagen-based constructs as well as advantages and potential limitations in the processing of this biopolymer. Contributions in the form of full research articles, short communications, clinical studies or review articles are welcome, with a special focus on (but not limited to) the additional functionality provided by collagen in the design of 3D scaffolds, in vitro models, bioactive fillers and smart delivery platforms.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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

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.

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, Inspec, CAPus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Biomedical*) / CiteScore - Q2 (*Biomedical Engineering*)

Contact Us

Journal of Functional Biomaterials
Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jfb
jfb@mdpi.com
[X@JFB_MDPI](https://twitter.com/JFB_MDPI)