Special Issue

Smart Biomaterials for Soft and Hard Tissue Repair and Regeneration

Message from the Guest Editors

Nowadays, there is a huge need for a new generation of biomaterials, smart biomaterials, which can be designed according to the demands of the human body. Although there is a panoply of different commercially available natural and synthetic biomaterials for the treatment of soft and hard tissues, few are able to replicate the hierarchical complexity of biological tissues. In this Special Issue, we would like to present an innovative perspective for the treatment of soft and hard tissues using smart biomaterials, with the intention to overcome drawbacks and use new manufacturing strategies by modulating their architecture and functionalities. Contributions (reviews and/or original papers) on smart biomaterials for hard and soft tissue repair and regeneration are very welcome. Keywords

- bone healing
- wound regeneration
- additive manufacturing (3D printing)
- smart biomaterials
- biological characterization

Guest Editors

Dr. Catarina F. Santos

Prof. Dr. Maria Helena Fernandes

Dr. Joana Marques Marto

Deadline for manuscript submissions

closed (20 December 2022)

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/95154

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)