Special Issue

Development of Biocomposites for Bone Tissue Engineering

Message from the Guest Editors

This Special Issue will focus on recent advances in the development, characterization, and application of biocomposites for bone tissue engineering. Emphasis will be placed on materials that combine bioactivity, biocompatibility, and appropriate mechanical properties to support bone regeneration. This issue welcomes original research, reviews, and translational studies that explore ceramic-polymer composites, natural biomaterials, scaffold fabrication techniques, functionalization strategies, and biological performance both in vitro and in vivo. The aim is to provide a comprehensive overview of the state of the art in this rapidly evolving field, highlighting innovations that bridge the gap between fundamental research and clinical application. Contributions spanning materials science. bioengineering, and regenerative medicine are particularly encouraged.

Guest Editors

Prof. Dr. Nuno Alegrete

i3S-Institute for Research and Innovation in Health and Faculty of Medicine, University of Porto, Porto, Portugal

Prof. Dr. Maria Pia Ferraz

i3S-Institute for Research and Innovation in Health and Faculty of Engineering, University of Porto, Porto, Portugal

Deadline for manuscript submissions

30 November 2025



Journal of Functional <u>Biomate</u>rials

an Open Access Journal by MDPI

Impact Factor 5.2 CiteScore 6.8 Indexed in PubMed



mdpi.com/si/242192

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





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)

