Journal of
Functional Biomaterials

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Advanced Biomaterials for Periodontal Regeneration

Guest Editors:

Prof. Dr. Kerstin Gritsch

Prof. Dr. Sônia Maria Malmonge

Dr. Thibault Canceill

Deadline for manuscript submissions:
28 February 2025

Message from the Guest Editors

Periodontal regeneration is a real challenge due to the presence and interaction of soft and mineralized tissues within the periodontal complex. The intrinsic regenerative properties of each of these tissues as well as the specific microbial environment and the immuno-inflammatory component of periodontitis make it more difficult to achieve the complete and organized regeneration of periodontal tissues.

Recent advances in the development of biomaterials and organized scaffolds and in the identification of bioactive molecules and their incorporation into biomaterials/scaffolds, giving them antibacterial or inflammation-modulating properties or optimizing integration within tissues, aid in meeting the challenges of periodontal regeneration.

In this Special Issue, original research articles and systematic reviews and/or meta-analyses are welcome. Research areas may include (but are not limited to) the following:

- Biomimetic materials or scaffolds;
- Bioactive molecules for the functionalization of biomaterials/scaffolds;
- Scaffolding fabrication technologies to promote the organized reconstruction of soft and hard periodontal tissues.

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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.

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Journal of Functional Biomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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