Special Issue

Application of Biomaterials and Techniques in Dental Surgical Treatment

Message from the Guest Editors

Dentistry probably represents one of the medical fields in which the study and utilization of innovative biomaterials and operative protocols for tissue reconstruction are much more present. Autogenous, homologous, heterologous, and synthetic bone grafts, resorbable and non-resorbable membranes, meshes, matrices, fixation pins or screws, and other surgical devices, as well as inducing biological mediators, have been proposed and efficiently used to promote the reconstruction of both hard and soft tissues. The introduction of new aesthetic materials, digital devices, processing software, and manufacturing and prototyping tools have radically transformed the dental profession.

The current aim of research on biomaterials is to promote and support a complete regeneration of the target tissue. In vitro, in vivo and clinical studies are absolutely mandatory to evaluate cellular and molecular interactions with biomaterials as well as their behavior in living organisms.

This Special Issue aims to focus on the advances in this attractive field of research, encouraging a multidisciplinary approach to the subject. It is our pleasure to invite you to submit your work to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/158017

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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

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