



Recent Advances in Dental Biomaterials

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Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editors

In recent years, a significant evolution has taken place in the clinical application of dental materials. From restorative and endodontic measures to bioactive materials that induce tissue repair and regeneration, compensating for a lack of hard dental tissue, principles and guidelines of treatment can be modified due to their wide indication areas and the diversity of their application in various specialist branches of dental medicine. Due to their biological safety, inductive biological effect, and wide indicative range of application, bioactive dental materials physiologically replace damaged tooth structures, induce the regeneration of periapical inflammatory lesions, and promote revascularization and tissue revitalization. Bone substitutes, used to fill defects after surgery or trauma, provide mechanical support and can induce bone healing. Filling these defects with bone substitute material prevents the resorption of bone, preserves the alveolar ridge, and provides sufficient bone for immediate or subsequent implant placement.

Keywords

- bone substitutes
- restorative materials
- biomaterials
- hyaluronic acid
- modern ceramics
- polymers





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

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