



Advanced Biomaterials and Biotechnology: Applications in Dental Medicine—Volume II

Guest Editors:

Prof. Dr. Lavinia Cosmina Ardelean

Department of Technology of Materials and Devices in Dental Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

Prof. Dr. Laura-Cristina Rusu

Department of Oral Pathology, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

Deadline for manuscript submissions:

20 October 2024

Message from the Guest Editors

Dental biomaterials play an important role in the reconstruction of damaged oral hard and soft tissues, encompassing the fields of periodontology, endodontics, oral surgery, and ultimately attempting the replacement of the whole tooth organ. Biomaterials have evolved from simply replacing the damaged tissue to allowing the 3D development of structurally complex regenerated tissue. The development of biotechnology applications in dentistry has achieved its goal regarding the implementation of biomaterials in order to replace oral tissue, including various novel approaches such as biomimetics and nano-biotechnology.

This Special Issue aims to provide an updated outlook on the applications of advanced biomaterials and biotechnologies in dentistry. Research articles, reviews, and communications are all welcome for submission. Potential topics include, but are not limited to:

Advanced biomaterials for dental applications;
Biotechnology applications in dental medicine;
Role of scaffolds in dental tissue regeneration;
Polymers applications in regenerative medicine;
Current applications of 3D bioprinting in dentistry;
Future perspectives of 4D bioprinting in dentistry.





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

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Journal of Functional Biomaterials
Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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