

Special Issue

Biomaterials and Bioengineering in Dentistry

Message from the Guest Editors

Over recent decades, advances in nanotechnology and bioengineering have exponentially increased the range of biomaterials being developed for various applications in the ever evolving field of dentistry. Although newer biomaterials are continually being developed, recent technological developments have resulted in significant improvements in the materials that are already being used in dental clinics including, but not limited to, bioactive glasses, resins, and polymers that are being assessed for future applications in periodontal and regenerative procedures, maxillofacial reconstruction, and implantology. This Special Issue invites recent studies and comprehensive reviews from the fields of bioengineering, health sciences, material sciences, and basic and clinical sciences which investigate approaches aimed at developing new or improved biomaterials intended for use in restorative and regenerative treatments, including implant therapy. Furthermore, studies around approaches that can enhance osseointegration of dental implants through utilisation of bioactive materials or biomimetic implant surface modifications to modulate early and delayed healing response are also invited.

Guest Editors

Prof. Dr. Dileep Sharma

Dr. Poornima Ramamurthy

Dr. Kate Miller

Dr. Stephen Hamlet

Deadline for manuscript submissions

closed (20 January 2024)



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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

Prof. Dr. Pankaj Vadgama

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