

## Special Issue

# Biomaterials and Bioengineering in Dentistry (2nd Edition)

### Message from the Guest Editors

In 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 novel biomaterials are being fabricated continuously, recent technological developments have resulted in significant improvements in the materials already employed in dental clinics; these include, but are not limited to, bioactive glasses, resins, and polymers, which are being assessed for future applications in periodontal and regenerative procedures, maxillofacial reconstruction, and implantology. This Special Issue welcomes the submission of recent studies and reviews in the fields of bioengineering, health sciences, material sciences, and basic and clinical sciences that investigate the development of biomaterials for use in restorative and regenerative treatments, including implant therapy. Furthermore, we welcome the submission of studies that propose approaches to enhancing the osseointegration of dental implants via the utilization of bioactive materials or biomimetic implant surface modifications in order to modulate the early or delayed healing response.

### Guest Editors

Prof. Dr. Dileep Sharma

Dr. Poornima Ramamurthy

Dr. Kate Miller

Dr. Stephen Hamlet

### Deadline for manuscript submissions

31 December 2025



## Journal of Functional Biomaterials

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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.

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### Editor-in-Chief

Prof. Dr. Pankaj Vadgama

School of Engineering and Materials Science, Queen Mary University of London, London, UK

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