

Special Issue

The Future of Biomaterials in Dentistry: Innovations in Drug Delivery and Regenerative Medicine

Message from the Guest Editor

Dental practitioners face major challenges in regenerating dental and periodontal tissues. From open apex roots to the lack of keratinized gingival tissues around dental implants, tissue engineering is a foundational pillar in dentistry. Recognizing the inherent limitations of autologous grafts and the current gold standard in synthetic biomaterials, materials science, pharmacology, and dentistry converge to advance this field. Quality-by-design, environmental responsiveness, 3D printing, nanosizing, functionalization, and controlled drug release are pinnacle strategies to facilitate the integration of basic research, industry, and clinical practice and address the most complex clinical scenarios. This open access Special Issue encompasses cutting-edge research of tissue engineering in dentistry, ranging from polymers and ceramics to natural-based drug delivery systems. We welcome the submission of original studies in basic, translational, or clinical research, as well as review papers, focusing on groundbreaking innovations in regenerative medicine within dentistry.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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