Special Issue

Biomaterials for Oral and Dental Drug Delivery

Message from the Guest Editors

The field of oral and dental drug delivery is rapidly evolving, driven by advances in biomaterials science, nanotechnology, and tissue engineering. This Special Issue aims to highlight innovative strategies that enhance the efficacy, safety, and patient compliance of therapeutic approaches targeting the oral cavity and dental tissues. We welcome contributions that address fundamental mechanisms of drug release, the design of novel biomaterials, and their applications in treating oral diseases, periodontal regeneration, and dental tissue repair. Topics of interest include, but are not limited to, bioactive and biodegradable carriers, nanoparticle- and hydrogel-based delivery systems, mucoadhesive platforms, and smart materials responsive to the unique environment of the oral cavity. By bringing together interdisciplinary perspectives from materials science, dentistry, pharmacology, and bioengineering, this Special Issue seeks to advance the translation of innovative biomaterial-based drug delivery systems into clinical practice. Original research, reviews, and cuttingedge technological reports are welcome.

Guest Editors

Dr. Magdalena Paczkowska-Walendowska

Department of Pharmacognosy and Biomaterials, Poznan University of Medical Sciences, 60-806 Poznań, Poland

Prof. Dr. Judyta Cielecka-Piontek

Department of Pharmacognosy and Biomaterials, Poznań University of Medical Sciences, 60-806 Poznań, Poland

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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