



Novel Materials for Biomedical Applications

Guest Editors:

Dr. Jayakumar Rajadas

Biomaterials and Advanced Drug
Delivery Laboratory, Stanford
University, Stanford, CA, USA

Dr. Mustafeez Mujtaba Babar

Shifa College of Pharmaceutical
Sciences, Shifa Tameer-e-Millat
University, Islamabad, Pakistan

Deadline for manuscript
submissions:

closed (31 October 2022)

Message from the Guest Editors

Novel materials including nanoparticles play a significant role in drug delivery for the treatment of diseases, vaccine delivery and tissue regeneration. Specifically, smart biomaterials and nanoparticles are widely used for targeted delivery.

This Special Issue of *Biomolecules* will focus on the most recent advances including micro-/nanocarrier-based materials, the synthesis or conjugation of novel materials, and protein/peptide-based biomaterials for biomedical applications. Current advances in the development of these novel materials including multifunctional liposomes, microneedles, microdroplets, nanoparticles, and other micro-/nanocarriers for disease treatment and skin and vascular regeneration will be addressed. Discussion on designing novel micro-/nanocarriers, drug delivery, and the synthesis or conjugation of novel materials with currently available FDA-approved drugs in biomedical applications will also be encouraged in this context. Both research and review articles proposing novelties are welcome





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Biochemistry*)

Contact Us

Biomolecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
[X@Biomol_MDPI](https://twitter.com/Biomol_MDPI)