



Advances in Nano-Based Drug Delivery: Unveiling the Next Frontier

Guest Editors:

Dr. Yuping Bao

Department of Chemical and
Biological Engineering, The
University of Alabama,
Tuscaloosa, AL, USA

Dr. Jessica M. Larsen

1. Department of Chemical and
Biomolecular Engineering,
Clemson University, 105 Sikes
Hall, Clemson, SC, USA
2. Department of Bioengineering,
Clemson University, 105 Sikes
Hall, Clemson, SC, USA

Deadline for manuscript
submissions:

15 October 2024

Message from the Guest Editors

Significant advancements in nano-based drug delivery systems have offered promising solutions to various challenges in drug delivery such as improved bioavailability, targeted delivery, and reduced side effects. This Special Issue aims to provide a comprehensive overview of the latest developments in this rapidly evolving field. This Special Issue welcomes key themes and contributions that include, but are not limited to, nanoformulations for targeted/precision therapy, controlled/on-demand smart drug delivery systems, nanoformulations for oral or topical delivery, nanosystems across biological barriers, biomimetic nanocarriers, and challenges and future perspectives. In summary, this Special Issue provides a valuable resource for researchers, clinicians, and industry professionals interested in the latest advances and future prospects of nano-based drug delivery systems. By highlighting cutting-edge research and addressing key challenges, it aims to catalyze further innovation in this rapidly expanding field, ultimately contributing to improved therapeutic outcomes for patients.





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)