



Nanomaterials for Targeted Drug Delivery

Guest Editors:

Prof. Dr. Jagdish Singh

Department of Pharmaceutical
Sciences, College of Health
Professions, North Dakota State
University, Fargo, ND 58108-6050,
USA

Dr. Buddhadev Layek

Department of Pharmaceutical
Sciences, School of Pharmacy,
College of Health Professions,
North Dakota State University,
Fargo, ND 58108-6050, USA

Deadline for manuscript
submissions:

closed (20 October 2024)

Message from the Guest Editors

Dear Colleagues,

Over the decades, nanocarriers have been extensively investigated for improved pharmacokinetics and biodistribution, increased stability, reduced toxicities, controlled release, and site-specific delivery of therapeutics. However, the efficacy of nanocarrier-based drug delivery systems is dependent mainly on their controlled interactions with biomolecules. Therefore, nanoparticles have often been surface-functionalized with various ligands, not only to impart site-specificity and increase cell penetration but also to provide stealth properties and improve payload capacity. This Special Issue will focus on recent progress in nanotechnology in the areas of basic and applied research, as well as clinical medicine. Topics of interest include but are not limited to cutting-edge research on the preparation of surface-functionalized nanoparticles and their in vitro and in vivo evaluation. Further, the interaction between nanoparticles and bio-interfaces will also be included.

Prof. Dr. Jagdish Singh
Dr. Buddhadev Layek
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

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.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI