



Novel Approaches for Overcoming Biological Barriers

Guest Editors:

Dr. Vibhuti Agrahari

Department of Pharmaceutical Sciences, University of Oklahoma Health Sciences Center, 1110 N. Stonewall Avenue, CPB 325, Oklahoma City, OK 73117, USA

Dr. Prashant Kumar

Vaccine Analytics and Formulation Center, Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66047, USA

Deadline for manuscript submissions:

closed (20 July 2022)

Message from the Guest Editors

The selective permeability of biological barriers and the growing trend to use large molecules as next generation therapeutics makes it challenging to deliver drugs to specific targets in our body. Use of physical enhancement methods, chemical permeation enhancers, activation/inhibition of transports, biomolecules, nanotechnology, microneedles, biomimetics, and engineered biomaterials, etc., have been demonstrated to allow overcoming biological barriers. This Special Issue serves to provide readers with an overview of the novel approaches and new therapeutic modalities being used to target sites across biological barriers. We are interested in articles related to quantitative and mechanistic studies using in vitro models, in vivo trials, and translational challenges for enhancing drug delivery across biological barriers and for applications in the pharmaceutical industry.

- drug delivery
- transdermal transport
- blood–brain barrier
- permeation enhancers
- transporters
- nanoparticles
- microneedles





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

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

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased 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, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

Contact Us

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

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

mdpi.com/journal/pharmaceutics
pharmaceutics@mdpi.com
X@MDPIpharma