



## Membrane Transport and Drug Permeation

Guest Editors:

**Prof. Dr. Maria Lambros**

Department of Pharmaceutical Sciences, College of Pharmacy, Western University of Health Sciences, Pomona, CA 91766, USA

**Prof. Dr. Alekha K. Dash**

Department of Pharmacy Sciences, School of Pharmacy & Health Professions, Creighton University, Omaha, NE 68178, USA.

Deadline for manuscript submissions:

**28 February 2025**

### Message from the Guest Editors

Dear Colleagues,

We are pleased to announce a Special Issue of Pharmaceutics focused on “Membrane Transport and Drug Permeation”. This issue aims to showcase research that explores mechanisms and applications of membrane transport in drug delivery and highlights its significance in drug development and clinical practice.

We welcome original research articles or reviews that address, but are not limited to, the following topics:

- **Mechanisms:** Passive diffusion, facilitated diffusion, active transport, and vesicular transport mechanisms in drug permeation.
- **Emerging Technologies:** Advances in techniques for studying membrane transport, such as high-throughput screening and computational modeling.
- **In Vitro and In Vivo Models:** Experimental models studying drug transport, such as cell cultures, artificial membranes, and animal models.
- **Drug Delivery Strategies:** Nanoparticle-based and targeted drug delivery approaches exploiting membrane transport mechanisms.

We look forward to receiving your contributions.

Prof. Dr. Maria Lambros

Prof. Dr. Alekha K. Dash

*Guest Editors*





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 and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

## Contact Us

---

Pharmaceutics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pharmaceutics](http://mdpi.com/journal/pharmaceutics)  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)  
X@MDPIpharma