



## Challenges and Perspectives of Drug Transporters: Where Do We Go from Here?

Guest Editor:

**Prof. Dr. Stefan Oswald**

Institute of Pharmacology and  
Toxicology, Rostock University  
Medical Center, 18051 Rostock,  
Germany

Deadline for manuscript  
submissions:

**closed (20 February 2023)**

### Message from the Guest Editor

Dear Colleagues,

During the last decades, drug transporters have been identified as important determinants of the pharmacokinetics and, in turn, the pharmacodynamics of many drugs. Prominent and well-characterized examples in this regard are P-gp, BCRP, OATP1B1, and OATs, mediating the uptake or efflux of drugs and/or their metabolites in intestine, liver, and kidney. Consequently, drug transporters for new molecular entities have to be considered in today's drug development programs, according to recent guidelines from the medical authorities.

However, our current knowledge is still limited to some 20–30 transporters, whereas we know today about 50 ABC and 400 SLC transporters. Thus, additional knowledge about the physiological and pharmacological roles of the remaining transporter proteins is needed.

This Special Issue aims to address some of the aforementioned open questions related to drug transporters.

Prof. Dr. Stefan Oswald  
*Guest Editor*





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