

Special Issue

Pathophysiological Influences on Pharmacokinetics and Pharmacodynamics

Message from the Guest Editors

There remains a notable gap in the literature regarding the characterization of drug-metabolizing enzymes and transporters in both disease states and physiological conditions, particularly by *in vivo* activity markers. This Special Issue seeks to address these gaps by highlighting recent progress in understanding the impact of both pathophysiological and physiological factors on drug kinetics and dynamics. Potential topics of interest include, but are not limited to, the following: Characterization of drug kinetic disposition in patients with specific pathophysiological or physiological conditions;

Comparisons of PK and/or PD between healthy individuals and those with diseases or altered physiological states;

Exploration of how disease states and physiological conditions can modify drug absorption, distribution, metabolism, and excretion;

Impact of comorbidities and physiological changes on pharmacotherapy outcomes;

Optimization of drug therapy in patients with altered physiological states, including pregnancy;

Advances in PBPK modeling that account for pathophysiological and physiological influences.

Guest Editors

Dr. Geraldo Duarte

Dr. Fernanda de Lima Moreira

Dr. Jhohann Richard de Lima Benzi

Deadline for manuscript submissions

closed (20 November 2025)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 6.9
CiteScore 12.5
Indexed in PubMed



mdpi.com/si/216467

Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)





Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 6.9
CiteScore 12.5
Indexed in PubMed



[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)



About the Journal

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceuticals and biopharmaceuticals. 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.

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).