

Special Issue

Innovative Tools for Therapeutic Drug Monitoring

Message from the Guest Editors

The variability of drug response complicates the prediction of the risk–benefit balance, limiting the real benefit of treatment. The pharmacometrics approach provides an attractive solution to characterize the variability of response to drugs and identify the clinical and biological parameters for therapeutic drug monitoring. A priori adaptation can be proposed when taking variability into consideration. A more precise a posteriori optimization can be made when integrating drug concentrations and metabolites in biological matrices, combined, if necessary, with pharmacogenetic data. The integration of clinical data (patient characteristics, clinical response, undesirable effects, toxic effects) finally makes it possible to propose a more rational individualization. This Special Issue provides a panorama of the state of the art of therapeutic drug monitoring and its tools. Examples of modern approaches to adapting dosages for different pharmacological classes in different medical specialties and situations such as anesthesia, infection, psychiatry, neurology, cardiology, oncology, intensive care medicine, chronic inflammatory diseases, etc. are also welcome.

Guest Editors

Prof. Dr. Zoubir Djerada

Department of Pharmacology and Toxicology, Université de Reims Champagne-Ardenne, HERVI, CHU Reims, 51100 Reims, France

Prof. Dr. Xavier Delavenne

Laboratory of Pharmacology and Toxicology, 42100 Saint-Étienne, France

Deadline for manuscript submissions

closed (10 December 2022)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/76280

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 5.5
CiteScore 10.0
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).