

# Special Issue

## New Trends in Drug Pharmacokinetics and Metabolism Research

### Message from the Guest Editors

Pharmacokinetics (PK) examines how drugs are absorbed, distributed, metabolized, and excreted in the body. Drug metabolism focuses on the biochemical transformation of drugs, emphasizing enzyme pathways, metabolite identification, stability, and interactions. For this Special Issue, we welcome high-quality original research papers and reviews in the fields of drug pharmacokinetics and metabolism. Submissions may focus on new trends and innovative studies, including the following:

- Local bioavailability of drugs;
- Drug–drug and drug–herb interactions;
- Applications of machine learning and advanced modeling techniques;
- The role of the gut microbiome in drug metabolism;
- In vitro to in vivo extrapolation;
- Pharmacokinetics and metabolism of monoclonal antibodies, peptides, and oligonucleotides.

Additional topics include the following:

- Advanced modeling techniques;
- Identification of new drug modalities;
- Applications of mass spectrometry in DMPK (drug metabolism and pharmacokinetics);
- Machine learning and AI in PK/PD modeling;
- Pharmacogenomics and personalized medicine.

### Guest Editors

Dr. Rongjin Sun

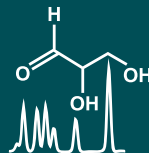
Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, 4349 Martin Luther King Boulevard, Houston, TX 77204, USA

Prof. Dr. Steven C. Laizure

Department of Clinical Pharmacy and Translational Science, College of Pharmacy, University of Tennessee Health Science Center, Memphis, TN 38163, USA

### Deadline for manuscript submissions

31 August 2025



## Metabolites

an Open Access Journal  
by MDPI

Impact Factor 3.7  
CiteScore 6.9  
Indexed in PubMed



[mdpi.com/si/230286](https://mdpi.com/si/230286)

*Metabolites*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metabolites@mdpi.com](mailto:metabolites@mdpi.com)

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





# Metabolites

an Open Access Journal  
by MDPI

Impact Factor 3.7  
CiteScore 6.9  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

### Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).