Special Issue

Biochemical Activation and Functions of Drug-Metabolizing Enzymes

Message from the Guest Editors

Drug-metabolizing enzymes (DMEs) have a significant role in the metabolism and activation of many endogenous and exogenous chemical constituents. Biochemical activation is necessary for inducing the proper biological functions of active molecules. Genetic variations in DMEs at the interindividual level compromise the efficacy and safety of numerous drugs. Nowadays, novel advancements in computational methods and modern techniques are being harnessed for the metabolite identification and understanding metabolic mechanistic pathways and networks. The past few decades have seen several advancements in analytical techniques for the qualitative and quantitative analysis of metabolites, biomarkers, and drugmetabolizing enzymes. This Special Issue aims to present the latest updates and findings regarding the biological functions of DMEs and their isolation, qualification, quantification, and interpersonal variations. This topic will cover the diseases in which the integrity and functionality of these enzymes are compromised, and will present novel updates or possible solutions to overcome these issues.

Guest Editors

Dr. Muhammad Sajid Hamid Akash

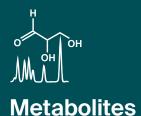
Department of Pharmaceutical Chemistry, Government College University, Faisalabad, Pakistan

Dr. Kanwal Rehman

Department of Pharmacy, The Women University, Multan, Pakistan

Deadline for manuscript submissions

closed (15 May 2023)



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/143282

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

mdpi.com/journal/ metabolites





Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



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).

