Special Issue

Recent Developments and Emerging Trends in Metabolic Modelling and Metabolomics

Message from the Guest Editors

Metabolism is critical to the growth and functioning of any biological system. The knowledge of metabolic phenotypes of living cells provides avenues for the development of new therapies and the identification of biomarkers for various diseases, or in metabolic engineering for industrial applications. Metabolomics and systems-based tools such as metabolic flux analysis and genome-scale modelling are popular approaches for measuring metabolism. There have been continuous efforts in refining and advancing analytical platforms and flux analysis tools to provide detailed insights into cellular metabolism and metabolic fluxes. This Special Issue focuses on recent developments and emerging trends in metabolomic studies and in metabolic modelling. It will cover the application of these tools in various disciplines ranging from human diseases to microbial biotechnology.

Guest Editors

Prof. Dr. Johnjoe McFadden

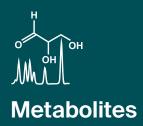
Faculty of Health and Medical Sciences, University of Surrey, Guildford, Surrey, UK

Dr. Khushboo Borah Slater

Faculty of Health and Medical Sciences, University of Surrey, Guildford, Surrey, UK

Deadline for manuscript submissions

31 August 2025



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/183650

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).

