Special Issue

Animal and Cellular Models in Metabolomics Research

Message from the Guest Editors

Metabolomics, an essential tool of modern biochemical research, is no longer solely a hypothesis-generating platform, but rather is extensively used in hypothesis testing studies. Progress in gene manipulation techniques allows the turning on and off of particular enzymatic functions in a cell- or tissue-specific manner. We therefore invite research and review articles devoted to various aspects of cell and animal models used in metabolic studies. The focus of this Special Issue involves technical approaches and the translation from cell to animal metabolic models. The topics include but are not limited to the use of cell culture and animal models in the exploration of single cell metabolism, high-throughput metabolomics, and the use of stable isotope tracers for metabolic flux analysis. Studies using genetic manipulations or in vivo dietary and pharmacological interventions are particularly welcome. Studies applying in vitro/in vivo imaging of metabolites with the use of DNP-NMR and MRI are highly anticipated. Finally, protocols describing experimental guidelines are also welcome.

Guest Editors

Dr. Michal Ciborowski

Dr. Joanna Godzien

Dr. Stanislaw Deja

Deadline for manuscript submissions

closed (30 May 2020)

Metabolites

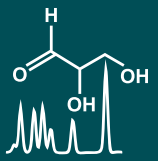
an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/si/26222

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

mdpi.com/journal/metabolites

MDPI

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).