Special Issue

Evaluation of Metabolic Changes in Mice Under Chronic Toxic Substances Exposure

Message from the Guest Editors

This Special Issue of Metabolites focuses on evaluating the metabolic alterations in mice subjected to chronic exposure to toxic substances. The scope of this Special Issue covers comprehensive studies utilizing metabolomics, proteomics, lipidomics, and advanced mass spectrometry to explore how these toxicants disrupt metabolic pathways. Research examining dose–response relationships, xenobiotic metabolism, and chronic toxicity assessment in murine models is particularly encouraged. The purpose of this Special Issue is to provide new insights into the molecular toxicology of chronic exposure, helping to better understand the long-term health risks posed by environmental contaminants. By gathering cutting-edge research on metabolic responses to toxicant exposure, this Special Issue aims to further our understanding of how chronic environmental exposure affects health, with implications for both animal and human studies. Potential authors are invited to submit experimental and review articles that address these critical questions using innovative approaches and contribute to advancing the field of toxicology and environmental health.

Guest Editors

Dr. Yun-Chung Hsiao

Genome Integrity & Structural Biology Laboratory, National Institute of Environmental Health Sciences (NIEHS/NIH), 105 T. W. Alexander Drive RTP, Durham, NC 27709, USA

Prof. Dr. Kun Lu

Department of Environmental Sciences and Engineering, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, USA

Deadline for manuscript submissions

closed (31 October 2025)

Metabolites

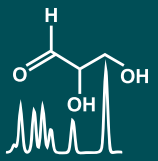
an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/si/217981

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

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 16.7 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the second half of 2025).

MDPI