Special Issue

The Effects of Heavy Metals on Human Metabolism

Message from the Guest Editors

The identification and characterization of metabolites are of paramount importance to many areas. Many drugs are developed as prodrugs, which after intake are metabolized into pharmacologically active molecules. On the other hand, there are many molecules, inorganic metals, and metal-organic compounds that are administered, and their active and/or putative metabolites are not characterized. Additionally, endogenous molecules are present in many metabolic/biochemical pathways, and their reactions, enzymes, and proteins involved need to be identified. The characterization of unstable metabolites is an analytical challenge. The development of in silico tools to predict drug metabolism is essential for the design of biologically active molecules; however, some computational parameters need to be improved to avoid false-positive events, especially for metals. Cell-based assays play an important role in preventing the unnecessary use of animal models and human volunteers. This Special Issue is devoted to the identification and characterization of heavy inorganic metals and metal-organic compounds and the putative effects of metabolites in humans health.

Guest Editors

Dr. Cláudia Sirlene Oliveira

Dr. Pablo Andrei Nogara

Prof. Dr. Joao Batista Teixeira Da Rocha

Prof. Dr. Michael Aschner

Deadline for manuscript submissions

closed (15 March 2023)

Metabolites

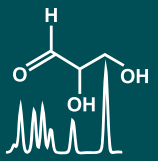
an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed

mdpi.com/si/136303

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).