

Special Issue

Metabolic Profiling in Neurometabolisms

Message from the Guest Editor

Metabolism within the brain, or neurometabolism, encompasses high-complexity metabolic pathways and networks. The energy demand can vary throughout the brain depending on region, degree of activity, cell type, and is mainly supplied by glucose. In addition to meeting cellular ATP demands, pathways related to glucose, lipid, and amino acid metabolism provide key metabolites to brain activity. The field of neurometabolism also involves the central control of the body's energy homeostasis and feeding behavior. Special Issue aims to cover a broad range of themes addressing brain energy supply and its regulation; genetic, biological, and environmental factors that modulate neurometabolism; cellular metabolic particularities and how they shape brain functions; role of glial cells in neurometabolism and neuron–glial metabolic cooperations; subcellular/organellar and biochemical processes that lead to damage or dysfunction of neural cells; neurometabolic imaging; peripheral-to-brain crosstalk and how brain influences systemic metabolism; metabolic interventions focusing on neuroprotection and therapeutic opportunities.

Guest Editor

Dr. Larissa Daniele Bobermin

Department of Biochemistry, Federal University of Rio Grande do Sul,
Porto Alegre 90035-003, Brazil

Deadline for manuscript submissions

15 September 2025



Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/227707

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

[mdpi.com/journal/
metabolites](https://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](https://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 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).