

Special Issue

Effects of the Glutamatergic System on Metabolic Alterations

Message from the Guest Editors

Glutamate is the major excitatory neurotransmitter in the central nervous system (CNS). Receptors for this amino acid are widely distributed in both neurons and glia in the brain, as well as in the spinal cord. Moreover, glutamate pathways are linked to many other neurotransmitter pathways. Glutamate is known to play an important role in many physiological processes. The undisturbed regulation of glutamate metabolism is crucial for the synthesis and oxidation of amino acids and the proper functioning of the CNS.

In our Special Issue entitled “Effects of the Glutamatergic System on Metabolic Alterations”, we would like to bring together experts examining the relationship between the glutaminergic system and metabolic changes, which may contribute to understanding the mechanisms underlying the pathophysiology of various CNS diseases, and thus identifying new targets for substances that may be helpful in their therapy. Authors from various fields are encouraged to submit original scientific articles or reviews related to the effects of the glutamatergic system on metabolic changes.

Guest Editors

Prof. Dr. Anna Serefko

Prof. Dr. Aleksandra Szopa

Dr. Katarzyna Świąder

Deadline for manuscript submissions

closed (31 December 2024)



Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/145071

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).