

Special Issue

Metabolomic Advances in Promoting Exercise-Induced Metabolic Changes

Message from the Guest Editors

Physical exercise promotes several physical and mental benefits to the human body and plays an important role in the prevention of chronic diseases. The effects of exercise are mediated by a complex process that involves the activation of integrated body systems at the molecular and cellular levels. The increasing use of metabolomics technologies in this field has allowed researchers to investigate the impact of exercise on the body through analyzing metabolites released by tissues such as skeletal muscle, bone and liver into blood, saliva, urine and sweat. Thus, in this Special Issue, researchers are encouraged to submit manuscripts (original research, reviews, mini reviews and perspective articles) based on metabolomic approaches, focusing on acute and chronic changes caused by exercise, as well as the combination of physical exercise with other therapies (nutrition and medication), in individuals with or without morbidities, athletes and individuals of different sex, race, ethnicity and/or region.

Guest Editors

Dr. Alex Castro

Biosciences National Laboratory, Brazilian Center for Research in Energy and Materials, Campinas 13083-100, SP, Brazil

Prof. Dr. Mara Patricia Traina Chacon-Mikahi

School of Physical Education, University of Campinas, Campinas 13083-851, Brazil

Deadline for manuscript submissions

closed (15 June 2025)



Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/177730

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 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).