Special Issue

Metabolic Physiology Under Environmental Coercion

Message from the Guest Editors

Environmental stresses can disrupt the balance and coordination between aquatic animals and their environment, leading to disruptions in their normal physiological functions.

This Special Issue publishes original research articles and review articles on the aspects of metabolites and metabolisms relevant to the fields of metabolomics, metabolic biochemistry, systems biology, biotechnology, and medicine. The focus is on the reaction mechanisms of organisms to the adverse external environment and metabolomics of biological stress-resistant growth under environmental coercion, including, but not limited to, physiological metabolic mechanisms, morphological structure changes, transcriptome analysis, genomic analysis, and intestinal microbiome research.

Changes in the environment may strongly affect aquatic organisms at the physiological, behavioral, and molecular levels, leading to the mass mortality of aquatic organisms and consequent degradation of genetic resources. Therefore, there is a need to better understand the mechanisms of response and adaptation in aquatic animals to the metabolisms of multiple environmental stressors.

Guest Editors

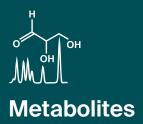
Prof. Dr. Yanchun Sun

Prof. Dr. Zhijun Tan

Dr. Shugun Xue

Deadline for manuscript submissions

closed (20 May 2025)



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/221573

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



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).

