

Special Issue

Microorganism Metabolism and Biotechnology Applications

Message from the Guest Editor

Dear Colleague, Metabolic engineering has significantly advanced the development of biotechnology and the bio-industry since its emergence in the early 1990s. In recent years, with the rapid development of cutting-edge fields such as synthetic biology, genome editing, deep machine learning, and automation technology, the field of metabolic engineering has been pushed to unprecedented heights. Metabolic engineering can modify and reconstruct the metabolism of microorganisms, yeast, or plants, optimize existing biochemical reactions and metabolic pathways, introduce exogenous metabolic pathways, and even create metabolic pathways that do not exist in nature to achieve and enhance the biological synthesis and manufacturing capabilities of amino acids, organic acids, chemical alcohols, antibiotics, vitamins, chemical raw materials, and other biotechnology products. This Special Issue focuses on microbial metabolism and its applications in various fields, including the optimization of microbial metabolism and its regulation, the development of metabolic engineering tools and techniques, and the application of synthetic biology to design and construct novel metabolic pathways.

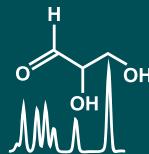
Guest Editor

Prof. Dr. Qian Yang

School of Life Science and Technology, Harbin Institute of Technology, Harbin 150006, China

Deadline for manuscript submissions

closed (5 June 2024)



Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/189764

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).