Special Issue

Microbial Biotechnological Application for Metabolite Bioprocesses

Message from the Guest Editor

A Special Issue on “Microbial Biotechnological Application for Metabolite Bioprocesses” is being prepared for the journal Microorganisms. A bioprocess with microbial biotechnology is an application of the microbial bio-process technique involving living microorganisms or their enzymatic components to influence the desired bio-transformation of substrates. In contrast to traditional chemical processes, their mild and/or non-toxic reaction conditions are used for the specific and efficient production of valuable compounds with multiple applications. Potential topics of interest in this Special Issue include but are not limited to the following:

Production of natural and bioactive compounds in bioprocesses by microorganisms;
Production of non-native chemicals in bioprocesses by microorganisms;
Microorganism metabolic engineering involved in bioprocesses;
Application of systems biology and synthetic biology in microorganism biotechnology in bioprocesses;
Genome-scale models of microorganisms; novel microorganism genome editing tool development;
Microorganism omics data application in microorganism biotechnology in bioprocesses.

Guest Editor

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Deadline for manuscript submissions

28 February 2026

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/219980

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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