Special Issue

Microbial Cell Factories: Production of Amino Acids Using Microorganisms

Message from the Guest Editors

As for microbial producers, some species such as *Escherichia coli* and *C. glutamicum* have been developed as microbial cell factories through metabolic engineering. Genome analysis and systems biological approaches have contributed to determination of the mechanism of amino acid overproduction in microbial cell factories. Recently, synthetic biology methods, including experimental robot automation and artificial intelligence-based metabolic pathway design, are improving microbial cell factories and taking them to the next level. For this Special Issue, you are invited to submit either review articles or original research articles on any aspect of microbial cell factories for producing amino acids, which can include achievements using microbial producers, mechanisms underlying how microbial cell factories overproduce amino acids revealed by recent technology, and the latest technologies for analyzing or designing microbial cell factories.

Guest Editors

Dr. Hisashi Kawasaki

Biotechnology Research Center, The University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan

Dr. Yoshihiro Usuda

Research and Business Planning Department, Ajinomoto Co., Inc. 15-1, Kyobashi 1, Chuo-ku, Tokyo 104-8315, Japan

Deadline for manuscript submissions

closed (31 October 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/78646

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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).

MDPI