Special Issue

Industrial Microbial Molecular Transformation and Application

Message from the Guest Editor

This Special Issue focuses on the rational manipulation of microbial systems and their enzymes through metabolic engineering techniques, genome editing, and recombinant technologies as well as bioinformatics and process systems engineering, fermentation technologies, bioreactor designs, and operations to provide new biocatalysts and microbial products and recovery. This Special Issue welcomes full-length original research papers, short communications, and review papers in the following research fields:New biotechnological approaches in microbial genomics, proteomics, and metabolomics;
Microbial protein engineering, including enzyme engineering and directed evolution;
Biocatalysis (both enzyme or microbial) fermentation and bioreactor engineering, biotransformations, including immobilized biocatalyst preparation and kinetics;
Microbial production of specialty chemicals, bioactive molecules, biomaterials, biopharmaceuticals, etc.;
Bioresources and biorefinery engineering including microbial conversion of biomass, biofuels, bioenergy, and optimization.

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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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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