Special Issue

Microbial Transformation of Organic Compounds

Message from the Guest Editors

The microbial transformation of organic compounds, i.e., the microbially catalyzed conversion of organic molecules, is a structural modification of the compounds by enzyme systems of microorganisms. In this Special Issue of Microorganisms, we call for articles, reviews, short communications, or comments on different aspects of the microbial transformation of organic compounds, including (but not limited to) the following: Antibiotics, Antifungal agents, Steroids, Other medicines, Xenobiotics and others. Manuscripts related to the discovery and engineering of microorganisms capable of performing different reactions of oxyfunctionalization of inactive carbons, rare redox reactions, cascade reactions including (chemo)enzymatic cascades, detoxification of persistent organic pollutants through microbial transformation, creation and genetic modification of whole cell biocatalysts, application of immobilized cells, as well as the production of new and established value-added molecules via microbial synthesis or biotransformation are welcome.

Guest Editors

Dr. Marina Donova

Institute of Biochemistry and Physiology of Microorganisms, Federal Research Center, Pushchino Scientific Center for Biological Research, Russian Academy of Sciences (FRC PSCBR RAS), Prospect Nauki 5, 142290 Pushchino, Russia

Dr. Victoria V. Fokina

Laboratory of Microbial Transformation of Organic Compounds, Institute of Biochemistry and Physiology of Microorganisms (IBPM), 142290 Pushchino, Russia

Deadline for manuscript submissions

closed (30 September 2023)

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

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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

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

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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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