Special Issue

Latest Advances in the Microbial Degradation of Hazardous Organic Contaminants

Message from the Guest Editor

This Special Issue "Biodegradation of Hazardous Organic Contaminants" of Microorganisms welcomes original research and review articles that present the latest advances in the microbial degradation of hazardous organic contaminants. The topics that fit the scope of the Special Issue are as follows:
- Taxonomic diversity of microorganisms degrading hazardous organic contaminants.
- Degradation pathways (including enzymes and metabolites) of hazardous organic contaminants.
- Influence of biotic (interactions of microorganisms with plants, fungi, and among themselves) and abiotic (environmental conditions and the presence of various additives) factors on the degradation of hazardous organic contaminants.
- Selection and study of microorganisms degrading new synthetic compounds.
- Genomics as a way for improving biodegradation of hazardous organic contaminants.
- Use of metagenomics, metatranscriptomics, metabolomics, and metaproteomics to predict the catabolic potential of microorganisms in a polluted environment.

Papers on other relevant topics are also welcome.

Guest Editor

Dr. Anna Muratova

Institute of Biochemistry and Physiology of Plants and Microorganisms, Saratov Scientific Centre of the Russian Academy of Sciences (IBPPM RAS), Saratov 410049, Russia

Deadline for manuscript submissions

closed (31 May 2024)

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

mdpi.com/journal/microorganisms

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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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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).

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