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Latest Advances in the Microbial Degradation of Hazardous Organic Contaminants

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Deadline for manuscript submissions:

closed (31 May 2024)

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.













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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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