



Microbially Driven Biodegradation and Biotransformation in Polluted Environmental Matrices

Guest Editors:

Prof. Dr. Giovanni Vallini

Department of Biotechnology,
University of Verona, Strada Le
Grazie 15 – Ca' Vignal, 37134
Verona, Italy

Dr. Silvia Lampis

Department of Biotechnology,
University of Verona, Strada Le
Grazie 15 – Ca' Vignal, 37134
Verona, Italy

Deadline for manuscript
submissions:

closed (15 October 2023)

Message from the Guest Editors

It was stated that the terms "biodegradation", "biotransformation", and "biocatalysis" all deal with the same thing: reactions that substantiate the microbial metabolism. Which term is properly used depends on the perspective by which individuals look at what is expected by the metabolic processes.

The aim of this Special Issue of *Microorganisms* is to collect original contributions regarding the state of knowledge about the ability of specific microorganisms—whether they are archaea, bacteria or fungi—to cause the conversion, either aerobic or anaerobic, of important environmental pollutants to inorganic compounds or to end-products that are however not harmful to human health and ecosystems. Any advancement of knowledge in the field of microbial catalysis associated with the biodegradation/biotransformation of contaminants of ecological concern can actually find application in reliable protocols of bioremediation, namely the most cost-effective and acceptable technology for the detoxification of pollutant contaminated environmental matrices such as soils, sediments and groundwater.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Toxicology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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))

Contact Us

Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI