



Biotechnology for Environmental Remediation

Guest Editor:

Prof. Dr. Elena Efremenko

Russian Academy of Sciences,
Faculty of Chemistry, Lomonosov
Moscow State University,
Moscow 119991, Russia

Deadline for manuscript
submissions:

15 September 2024

Message from the Guest Editor

Dear Colleague,

Environmental pollution has become an urgent global problem that requires innovative approaches if it is to be resolved. This Special Issue is dedicated to biotechnology as a promising direction in solving environmental problems. Biotechnological tools have shown immense potential in the effective removal of pollutants, mitigation of pollution effects and restoration of ecosystems. Various types of pollutants (petroleum products, metals, pesticides, pharmaceuticals, toxins, hormones, alkaloids, ionic liquids, synthetic polymers, detergents, microplastics, nanoparticles, prions, etc.) and their combinations are the main objects of the microbiological purification of water, soil and atmosphere.

This Special Issue aims to stimulate interdisciplinary research that addresses solutions to environmental pollution problems by bringing microbiological remediation and biotechnology closer to the methods of controlling and regulating these processes. By demonstrating the latest achievements and breakthroughs in this field, we strive to inspire further innovations to create a cleaner and healthier planet.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, 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 - Q2 (*Microbiology (medical)*)

Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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