

## Special Issue

# Advances in the Application of Biotechnology in Environmental Remediation

### Message from the Guest Editors

Biotechnology offers a promising path for sustainable environmental remediation to mitigate the impacts of contaminants, restore the ecological balance of our environment and preserve biodiversity.

Biotechnological processes using plants and microorganisms have demonstrated promising results in efficiently remediating and restoring the environment in an eco-friendly manner. This Special Issue, titled "Advances in the Application of Biotechnology in Environmental Remediation", welcomes contributions that explore innovative techniques, along with interdisciplinary research and real-world applications that showcase the transformative potential of biotechnology. Topics of interest include the following: development and optimization of bioremediation processes for soil, water, and air pollution; genetic engineering and synthetic biology for enhanced pollutant degradation; phytoremediation and the role of plant-microorganism interactions in environmental restoration; surfactants and biosurfactants for helping environmental remediation; socio-economic and environmental benefits of biotechnological interventions.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2025)



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