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# Microbial Remediation of Polluted Water Bodies and Degraded Water Ecosystems

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## **Message from the Guest Editors**

Recent decades have witnessed increasing deterioration of the global aquatic environment, which has been damaged by ubiquitous contaminants that have not undergone treatment or have been incompletely reclaimed from wastewater, which accounts for half of worldwide production. Traditional contaminants and contaminants of emerging concern, despite belonging to a wide variety of natural or anthropogenic chemicals, such agrochemicals, personal care products. industrial additives, hormones, and drugs, all pose severe threats to human health and environmental safety, whereas traditional wastewater treatment methods lack removal. capacities. Notably, many microorganisms (including bacteria, archaea, fungi, protists, and metazoans) have not only shown tolerance to these toxic compounds but also driven biodegradation processes. Studies have highlighted the necessity of exploring structural, genomic, and metabolic adaptations of these extremotolerant or functional microorganisms to uncover microbial bioremediation and biotechnologies processes.









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# **Message from the Editor-in-Chief**

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