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Microbially Mediated Fate of Emerging Environmental Contaminants

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Message from the Guest Editor

Emerging contaminants are increasingly detected in the environment. These pollutants may be toxic, or have adverse unintended consequences for the wildlife and humans that are exposed to them. Therefore, their biodegradation or biotransformation by microorganisms is an important process for their removal. As the biochemical pathways involved in contaminant elimination are elucidated, metabolic and genetic biomarkers are identified and can be used to predict the potential fate of contaminants in specific environmental settings.

This Special Issue aims to highlight research into the microbially mediated fate of emerging contaminants and the occurrence of biotransformation products in ecological niches including wastewater treatment and freshwater systems. Original research articles, short communications, and reviews are welcome. Research areas may include (but are not limited to) the following: biodegradation or biotransformation of organic contaminants in the environment or in wastewater treatment systems, identification of genetic and/or metabolic biomarkers of these processes, and application of these findings to determine the fate of emerging contaminants in the environment.



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Special Issue



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Message from the Editor-in-Chief

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