

Special Issue

Microbial Community in Wastewater Treatment Systems

Message from the Guest Editors

Biological wastewater treatment has a history of over 100 years, and new processes are still being discovered and innovated. Meanwhile, molecular technologies are more accessible and affordable for wastewater treatment sectors, bringing in more information on the microbial community in wastewater treatment. For example, together, high-throughput sequencing, metagenomics, isotopic labelling, and Raman spectroscopy can generate vast data. However, efficiently using these data to generate new insights into microbial community characteristics, ecology, metabolic pathways, and kinetics in order to inspire new hypotheses, new products, and process designs remains challenging. This Special Issue focuses on the microbial community in wastewater treatment processes. We welcome both review and research papers on themes of microbial community in innovative processes, microbial ecology in conventional wastewater treatment, application of molecular technologies to bring new insights, microbiome (prokaryotes, eukaryotes, virome, mobilome), and public health-related microorganisms in wastewater.

Guest Editors

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Deadline for manuscript submissions

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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