

Special Issue

Advances in Microbial Technology for Sustainable Wastewater Treatment

Message from the Guest Editors

Microbial communities profoundly impact Earth's ecosystems, making them powerful tools for mitigating humanity's global environmental footprint. This Special Issue is important for environmental protection and biotechnological processes for wastewater treatment based on microbial engineering. Novel approaches for applying microbes to new treatment technologies, biotechnological applications that substantially enhance wastewater treatment processes, and the ecology of microorganisms thriving in bioreactors and identification of their ecological roles within the wastewater treatment process deserve a spotlight, which we aim to provide.

We will gather contributions on the following topics:

- Novel technologies for the bioremediation of environmental pollution in water;
- The effects of pollutants on microbial communities in biotechnological processes and the adaptation processes of such microbes used in response to the environmental stresses of pollution;
- The role of microbial communities in the removal of pollutants from wastewater;
- Ecological studies of novel microbial taxonomies thriving in wastewater systems.

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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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