Special Issue

Biotechnologies for the Environment: Strategies for Containment and Depletion of Pollution in Wastewaters, Air, Soils and Sediments

Message from the Guest Editor

Environmental biotechnologies are based on the exploitation of microbial activities as catalysts of reactions for environment decontamination. The knowledge of microbial activity can be exploited for wastewater treatment, for gaseous emission removal, and for biodegradation of environmental organic pollutants and is crucial for the control of environmental pollution. The implementation of aerobic as well as anaerobic microbial activities exploited for their catabolic ability to treat biodegradable waste or pollutants has become an efficient, economical, and environmentally friendly technique that calls for a continuous multidisciplinary discussion between specialists in the environmental sector. This Special Issue aims to be a tool of comparison by addressing aspects such as mitigation and remediation of persistent, emerging, and other contaminants; sources, transport, and fate of persistent and emerging contaminants; toxicology and eco-toxicology of persistent contaminants; and molecular approaches dedicated to the study of the microbial ecology of contaminated matrices and to the restoration of biodiversity and resilience.

Guest Editor

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Message from the Editor-in-Chief

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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