

Special Issue

Microbial Ecology in Reservoirs and Lakes

Message from the Guest Editor

Lakes and reservoirs play an important role in transporting water, sediment, and nutrients from land to marine ecosystems. Reservoirs and lakes are regarded to store large quantities of terrestrial organic and inorganic compounds and are therefore important participants in the global biogeochemical cycle. In addition, microorganisms are generally considered to play a vital role in aquatic ecosystems, especially for planktonic bacteria and eukaryotes. Diverse lake and reservoir environments breed rich microbial diversity and resources, but their structure and function have been poorly understood until now. Microbiome and comparative genome research of reservoirs and lakes can reveal lake distribution characteristics and the formation mechanism of microbial diversity. In addition, by clarifying the composition of microbial functional genes and microbial adaptation mechanisms under extreme environmental conditions, new microbial function and metabolic pathways can be discovered. [...] For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/microbial_reservoirs_lakes

Guest Editor

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Deadline for manuscript submissions

closed (20 July 2022)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



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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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