

Special Issue

Taxonomy, Physiology, and Ecology of Aquatic Microorganisms

Message from the Guest Editors

A great challenge facing the field of aquatic microbiology nowadays is advancing our ability to characterize microbial biodiversity at multiple levels of resolution, though driving insight into the functional potential of ecosystems for their long term management and sustainability. [This Special Issue](#) calls for contributions on the characterization of new taxa, insights into the dynamics of community composition and functional attributes responding to environmental changes, community assembly, and functional ecology across diverse aquatic ecosystems. Of special interest are papers that suggest the use of multi- and interdisciplinary approaches that combine morphological with molecular and ecological data complementarily, from the field to the laboratory and back again, driven by working hypotheses based on any aspect from ecological theory to applied research on aquatic microorganisms. Keywords:

- bacteria
- Archaea
- Protists
- Rotifera
- Cladocera
- Copepoda
- biodiversity
- structure-function relations
- community assembly
- management

Guest Editors

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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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