

Special Issue

Microorganisms in Aquatic Environments: Emphasis on Computational, In Vitro and Ex Vivo Studies

Message from the Guest Editor

This Special Issue seeks to uncover the role and mutual interactions of microorganisms in aquatic ecosystems, including aquaculture and open waters. The emphasis is on data produced using in vitro or ex vivo systems, as well as the sublimation of research data through advanced computational analysis. The goal is to develop a unique collection of studies that utilize cutting-edge technology and rely minimally on living animals. The above goal escalates the need for knowledge systemization and protocol harmonization in the era of rapid expansion of research based on Next-Generation Sequencing (NGS). Advanced lab methods, including primary cell culture, cell lines, fish explant cultures, and simulated digestion, can substantially reduce the use of animals, at least in the initial screening or selection phases of research. We welcome research on all aspects of microbial applications in aquatic environments. The interpretation of data should be based on thorough statistical analysis. Aside from “wet” lab research, we welcome “dry” lab research: the compilation of extant sequencing data, mathematical modeling, etc.

Guest Editor

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Deadline for manuscript submissions

15 January 2026



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/223471

Microorganisms
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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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