Special Issue

Freshwater Microbiology and Public Health

Message from the Guest Editor

Freshwater ecosystems are vital for human survival, serving as key sources of drinking water, food, recreation, and livelihoods. However, increasing anthropogenic pressures, such as urbanization, agricultural runoff, industrial pollution, and climate change, are profoundly altering the microbiological composition of freshwater bodies. These changes have far-reaching consequences for ecosystem function, biodiversity, and public health. The study of freshwater microbiology is thus central to understanding how microbial communities regulate nutrient cycling, pathogen dynamics, and the spread of microbial pathogens, including antimicrobial-resistant ones, to humans and animals and back to the environment. This Special Issue aims to bridge the gap between limnology, microbiology, and public health by showcasing cutting-edge research on microbial processes in freshwater environments and their implications for human and animal well-being, and thus the One Health approach. We invite contributions that explore the ecological, molecular, and epidemiological dimensions of freshwater microbiomes, from microbial ecology and metagenomics to risk assessment and water-quality management.

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Deadline for manuscript submissions

30 June 2026

Limnological Review

an Open Access Journal by MDPI

CiteScore 1.4

mdpi.com/si/259428

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