

# Special Issue

## Microbiome in Fish and Their Living Environment

### Message from the Guest Editors

Over the past few decades, aquaculture has emerged as one of the fastest-growing food-producing sectors, playing a crucial role in providing quality protein for human beings. Globally, the total aquaculture production reached 130.9 million tons in 2022, and fish species account for 53% of this amount. Thus, fish farming plays a vital role in the global aquaculture industry. Fish are the most diverse group of vertebrates, and there are huge quantities of microorganisms in the gut of fish. The immunity of fish can shape the intestinal microbiota and maintain intestinal homeostasis. Additionally, the intestinal microbiomes can control the abundant proliferation of pathogenic microorganisms and regulate the immunity of fish. Dietary composition has huge impacts on microbiomes in fish gut and their living environment, thus regulating intestinal health and disease resistance. In this collection, we welcome papers that provide insights on the effects of dietary input on the gut microbiome of fish, interactions between gut microbiomes and fish immunity, and interactions between the gut microbiomes of fish and their living environment.

### Guest Editors

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### Deadline for manuscript submissions

30 November 2025



## Microorganisms

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Impact Factor 4.2  
CiteScore 7.7  
Indexed in PubMed



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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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### Editor-in-Chief

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