



Beneficial Microorganisms in Aquaculture

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Message from the Guest Editors

This Special Issue seeks to uncover the role of microorganisms in the maintenance of health and welfare of cultured aquatic species, including animals and plants. Aside from in vivo studies, we welcome research using in vitro/ex vivo systems to study microorganism–host interactions in accordance with the 3Rs. Advanced lab-based methods, including cell lines, fish explant cultures, simulated in vitro digestion, etc., can substantially reduce the use of animals. We aim to provide a unique overview of the in vitro methods used to test the interaction between microbes and aquatic organisms. Furthermore, modifications of the nutritive value of feeds and live food, as well as the microbial composition of live food, using microorganisms, are of special interest. We invite researchers to share innovative and applicative ex vivo and in vivo results that are relevant to the topic. The interpretation of the data should be based on thorough statistical analysis. Bioinformatics and machine learning methods would be highly appreciated. We additionally welcome review articles giving a systematic overview of microbiota compositions in different species, at different life stages, etc.





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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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