Special Issue

Microorganisms for Sustainable Aquaculture

Message from the Guest Editor

Aquaculture is the fastest growing and most rapidly advancing food production sector, playing a key role in the global economy and is anticipated to become a major source of protein in the coming decades. These microorganisms offer a promising, environmentally friendly solution to many of aquaculture's challenges.

Beneficial microorganisms—including bacteria, yeast, fungi, bacteriophages, and microalgae—play a vital role in improving water quality, enhancing health status, increasing survival rates, promoting growth, and reducing harmful pathogens. This approach not only supports sustainable aquaculture practices but also reduces the need for antibiotics, contributing to the production of high-quality, eco-friendly aquatic products that benefit both consumer health and industry sustainability.

By integrating these biological tools, the aquaculture industry can advance towards a more sustainable and environmentally conscious future. This Special Issue highlights the significance of research aimed at optimizing the use of microorganisms in aquaculture and emphasizes their role in fostering sustainable practices.

Guest Editor

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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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