Special Issue

Bacterial Infections in Aquaculture of Farmed Fish: Pathogenesis, Pathophysiology, Molecular Diagnosis, and Control

Message from the Guest Editor

One of the major constraints on aquaculture production is the susceptibility of farmed fish to diseases caused by husbandry practices or external factors such as pollution, climate change, or even shifts in the dynamics of product transactions in this industry. Fish have both innate and adaptive immune systems; when they encounter a pathogen, it triggers a cascade of defense mechanisms designed to attack the invader. Regarding the concept of a more sustainable aquaculture industry, bacterial pathogen infections have been widely recognized as a major obstacle. The economic impact of a disease outbreak on the aquaculture industry can be devastating, so understanding the causes of such an outbreak is crucial. High-throughput technologies, such as molecular diagnostic techniques, can be useful characterization tools for identifying pathogens. Through a focus on pathogenesis, pathophysiology, molecular diagnosis, and therapies against bacterial infections in farmed fish, this Special Issue aspires to provide a suitable multidisciplinary forum for the exchange of valuable information.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2024)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/163997

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"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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