

Special Issue

Fish Pathogens and Vaccines in Aquaculture

Message from the Guest Editor

In the past 14 years, we have prepared various effective attenuated bacterial vaccines and subunit vaccines by knocking out bacterial virulence genes and by expressing these OMPs. Additionally, we have explored the mechanisms for the immune protection effects of these vaccines through nonspecific and specific immunity, immune protection rate, pathological changes, and transcriptome sequencing analysis. Due to the increasing severity of bacterial antibiotic resistance and the pollution caused by chemical drugs to the environment, the use of vaccines to prevent bacterial diseases is the future direction of aquaculture. The purposes of this Special Issue are to better understand the main aquatic pathogens, to delineate the physiological, biochemical, and molecular characteristics of these pathogens, to study their pathogenic mechanisms, and to explore the interactions between pathogens and hosts. At the same time, we also welcome the submission of research papers on vaccines developed against these pathogens.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2025)



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About the Journal

Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Maria Angeles Esteban

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