

Special Issue

Recent Studies on Pathogen-Host Interaction of Aquatic Animals

Message from the Guest Editors

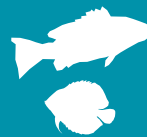
Aquatic pathogens, such as viruses, bacteria, fungi and parasites, may infect fish, crustaceans, mollusks, and other aquatic organisms. Pathogen-induced diseases cannot only determine the survival or death of aquatic individuals (populations), but also pose severe threats to aquaculture, wild aquatic ecosystems, and even public health. The outcome of any pathogen-host encounter depends on the competition between pathogen virulence and host defense capacity, shaped by host genetics, age, immune status, nutrition, and other comorbidities. Whether pathogens can breach host physical and chemical barriers, such as the skin, mucosal epithelia, and antimicrobial secretions? Whether the host triggers its immune defense immediately when sensing the pathogens? In essence, this is the issue of the interaction between the pathogen and the host. Pathogen-host interactions represent the dynamic, multilayered biological crosstalk between infectious organisms and their host. These interactions span molecular, cellular, tissue, and systemic levels, and determine whether infection results in clearance, asymptomatic colonization, mild disease, or severe pathogenesis.

Guest Editors

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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

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