

Special Issue

Molecular Mechanisms of the Non-Specific Immunity of Fish When Responding to Pathogen Infections

Message from the Guest Editors

Diseases caused by pathogens such as viruses and bacteria remain one of the most significant challenges restricting the sustainable development of global aquaculture. Although many studies have explored the immunology and innate defense strategies of fish, the molecular mechanism of how fish defend against early infections by pathogenic bacteria through non-specific immune responses is still not clear. This Special Issue, 'Molecular Mechanisms of the Non-specific Immunity of Fish When Responding to Pathogen Infections', aims to highlight the interactions between pathogens, hosts, and immune regulatory mechanisms. In particular, we will focus on the latest progress in non-specific immune defense strategies. We welcome studies on the immune responses of different immune cell populations to different pathogens, the receptors and signaling pathways of immune cell populations, pathogen-derived virulence factors, and the molecular immunology of infection. By integrating research from virology, bacteriology, and fish immunology, this Special Issue aims to fill key knowledge gaps and provide a deeper understanding of the role of non-specific immunity in fish during pathogen infections.

Guest Editors

Dr. Yu Huang

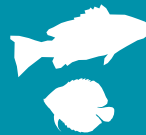
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About the Journal

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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