

## Special Issue

# Fish Disease Prevention: Immune Defense and Vaccine Development

### Message from the Guest Editors

With the continuous expansion of intensive aquaculture, disease prevention has become one of the most critical challenges facing aquaculture. Strengthening immune defense mechanisms and promoting vaccine development are therefore essential strategies to enhance disease resistance in aquatic species and support a healthy aquaculture system. This Special Issue welcome submissions of original research articles, reviews, and perspectives related to, but not limited to, the following topics:

- Innate and adaptive immune mechanisms in aquatic species;
- Development and efficacy evaluation of vaccines against major aquatic pathogens;
- Immunostimulants and functional feed additives for enhancing disease resistance;
- Diagnostic tools and health monitoring techniques for early disease detection;
- Interaction between nutrition, immunity, and disease prevention;
- Pathogen virulence factors and host–pathogen interactions;
- Biosecurity measures and sustainable disease management practices;
- Emerging approaches: phage therapy, quorum quenching, nanotechnology, and microbiome modulation.

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### Guest Editors

Dr. Rongrong Ma

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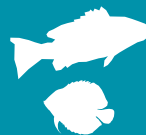
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### Deadline for manuscript submissions

15 June 2026



## Fishes

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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.

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### Editor-in-Chief

Prof. Dr. Maria Angeles Esteban

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