

## Special Issue

# Physiological and Behavioral Studies in Aquaculture

### Message from the Guest Editor

The sustainable development of aquaculture relies on a deep understanding of the physiological and behavioral mechanisms that underlie growth, coping with stress, reproduction, and welfare in cultured aquatic species. This Special Issue aims to spotlight recent advances in the physiological responses, metabolic regulation, neuroendocrine mechanisms, and behavioral endpoints of teleost and other aquaculture organisms under various environmental and culture conditions. We welcome original research and review articles that explore how nutrition, genetics, environmental stressors, and management practices influence animal growth, health, welfare, and productivity, with a particular interest in studies that integrate molecular, biochemical, physiological, behavioral and multi-omics approaches to reveal physiological responses, behavior alteration and adaptive mechanisms. Through this Special Issue, we aim to provide a comprehensive overview of how physiological and behavioral research can contribute to improving aquaculture sustainability and animal well-being.

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### Guest Editor

Prof. Dr. Zhishuai Hou

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### Deadline for manuscript submissions

10 November 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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