

Special Issue

Metabolomics in Marine Invertebrate Aquaculture

Message from the Guest Editors

The sustainable development of marine invertebrate aquaculture is crucial for meeting the growing global demand for seafood while minimizing environmental impacts. Metabolomics provides critical insights into the physiological, nutritional, and stress-related metabolic responses of marine invertebrates, thereby facilitating the optimization of aquaculture practices. This Special Issue focuses on advancing the understanding of metabolomics in marine invertebrate aquaculture, with an emphasis on metabolic pathways, nutrient utilization, stress adaptation, and biomarker discovery. We invite original research articles, comprehensive reviews, and perspective papers that explore key topics, including but not limited to: metabolic profiling of cultured marine invertebrates (e.g., mollusks, crustaceans, and echinoderms), the effects of dietary and environmental stressors on metabolic regulation, functional feed development based on metabolomic data, and the integration of metabolomics with other omics technologies to enhance aquaculture sustainability. Contributions should advance precision nutrition, health management, and biotechnological innovations in marine invertebrate farming.

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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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