

Special Issue

Environmental Adaptation and Metabolic Regulation in Aquatic Animals

Message from the Guest Editors

Maintaining an optimal aquatic environment is essential for sustainable aquaculture, directly impacting the health, growth, and reproduction of aquatic species.

This Special Issue focuses on the metabolic regulation and physiological responses of aquatic animals, particularly fish, to environmental stressors such as temperature variation, hypoxia, heavy metals, and antibiotics. We seek to advance understanding of metabolic regulation, stress adaptation, and reproductive performance under such conditions. Studies employing genomic, transcriptomic, and biochemical approaches are especially encouraged to identify key regulatory pathways and resilience traits. By integrating cutting-edge research, this Special Issue will enhance theoretical knowledge in the field of fish physiology and support the development of innovative, sustainable aquaculture practices.

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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