



## Physiological Response Mechanisms of Aquatic Animals to Stress

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### Message from the Guest Editors

In the process of aquaculture, with the improvement of intensive farming, the stress of cultured animals occurs frequently. When the stress exceeds an animal's physiological tolerance, it adversely affects aquatic animals' survival, growth, and health, ultimately leading to disease occurrence and a decline in breeding benefits. Many factors induce stress in aquatic animals, including environmental factors (water quality), biological factors (competition and pathogenic infections), and human-related factors (improper management, fishing practices, and transportation). Additionally, alterations in natural water or marine ecological environments, such as environmental pollutants, can also trigger stress responses in aquatic animals. Addressing the urgent need to understand the physiological response mechanisms of aquatic animals to stress and devising strategies to eliminate or alleviate this stress are imperative. This Special Issue warmly welcomes original articles and review articles covering the physiological response mechanisms of aquatic animals to stress, including physiology, biochemistry, immunity, metabolism, and molecular regulation.





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## Message from the Editor-in-Chief

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