

Special Issue

Fish Physiology in the Face of Climate Change: Stress, Survival, and Adaptation Strategies

Message from the Guest Editor

Climate change is having a significant impact on aquatic ecosystems and, consequently, affecting fish physiology. Rising water temperatures and ocean acidification are essential topics in multidisciplinary research. Related advances will contribute to a better understanding of the effects of these processes on the biological performance of different fish species. This Special Issue aims to bring together high-quality research on ecophysiological aspects, stress, growth, and physiological plasticity. Topics of interest are as follows:

- Growth and survival, thermoregulatory behavior, acid-base balance, respiration, and the immune system.
- Stress and adaptation: Exploring genomic and physiological responses to abiotic stressors (temperature and pH).
- Behavior: optimum temperature, tolerance and thermal resistance, thermal windows.
- Indicators of health and welfare: cortisol and glucose levels, heat shock proteins (HSPs), abnormal swimming patterns, social behavior, and physical and morphological indicators.

Further, we welcome contributions that employ approaches from the omics sciences to understand how organisms respond, adapt, or succumb to environmental disturbances.

Guest Editor

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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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