

Special Issue

Reproductive Physiology of Fishes

Message from the Guest Editors

The reproductive physiology of fishes is a complex process orchestrated by the hypothalamus–pituitary–gonad (HPG) axis, involving intricate endocrine, paracrine, and autocrine signaling. A comprehensive understanding of these mechanisms is essential for optimizing broodstock management, improving seed quality, and conserving wild populations, especially in the face of climate change and anthropogenic stressors. Special Issue "Reproductive Physiology of Fishes," aims to gather cutting-edge research on the physiological, molecular, and environmental regulation of fish reproduction. We welcome contributions focusing on sex determination and differentiation, gametogenesis (oogenesis and spermatogenesis), reproductive endocrinology, and the impacts of environmental factors on reproductive performance. Studies utilizing multi-omics approaches (transcriptomics, proteomics) and novel biotechnologies (e.g., germ cell transplantation, gene editing, cryopreservation) to decipher reproductive pathways are particularly encouraged. Both original research articles and comprehensive reviews are welcome to provide new insights into the reproductive biology of both wild and farmed fish species.

Guest Editors

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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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