Special Issue

Advances in Carp: Genetic Improvement and Biotechnology

Message from the Guest Editors

This Special Issue showcases cutting-edge advances in the fields of genetic improvement and biotechnology, with a focus on classical selective breeding, genomic selection, molecular breeding, epigenetic regulation, gene editing, transgenesis, gene knockout, germline stem cell technology, and germplasm preservation. The emphasis is placed on the functional characterization and application of genes that govern critical traits such as sex determination, reproduction, growth, and disease resistance. We welcome fundamental and applied contributions spanning germplasm evaluation, genome mining, germ cell transplantation, transgenic/knockout model development, biosafety assessment, gamete cryopreservation, and infectious disease management. A key priority is to integrate molecular tools with practical breeding strategies—especially for endangered or indigenous strains—to improve reproductive efficiency, growth performance, and environmental adaptability. By synthesizing insights from multiple disciplines, this issue aims to strengthen the theoretical and technical foundations of carp genetics and promote the application of modern biotechnology in sustainable aquaculture.

Guest Editors

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Deadline for manuscript submissions

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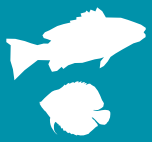

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About the Journal

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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