

Special Issue

Biotechnology Innovations in Aquaculture

Message from the Guest Editors

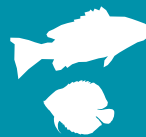
This Special Issue gathers studies exploring the responsible and innovative use of biotechnological tools in aquaculture. Topics include chromosome manipulation, such as polyploidy, to improve growth performance, induce sterility, support surrogate broodstock propagation, and enhance stock management. Advances in cryopreservation are highlighted as strategies for preserving genetic resources and supporting selective breeding programs. We also welcome research on fish reproduction, including reproductive physiology, hormonal induction, and breeding strategies that improve reproductive efficiency under different production systems. In addition, germ cell transplantation is discussed as an emerging biotechnology with potential for surrogate broodstock development and conservation of valuable genetic lines. Studies using functional genomics are encouraged when molecular insights relate to aquaculture traits. The issue also highlights sex control, nutrition, and health management strategies, including functional feeds and vaccines to enhance immunity, animal welfare, and disease prevention, supporting sustainable aquaculture.

Guest Editors

Prof. Dr. Nivaldo Ferreira do Nascimento
Prof. Dr. Diógenes Henrique De Siqueira-Silva
Dr. Matheus Pereira-Santos

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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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