

Special Issue

Effects of Feed and Supplementation on the Metabolism, Microbiota and Immune Response of Fish

Message from the Guest Editors

The growth of global aquaculture production has now outpaced that of wild capture fisheries. This surge in activity underscores the need for innovation and dedicated efforts in developing sustainable fish feed alternatives that enhance both the growth and overall health of farmed fish. Research is needed in areas such as alternative sources to fish meal and fish oil, the use of feed additives and supplements, and the replacement of conventional ingredients. Studies focusing on how these strategies influence fish metabolism, immune responses to common pathogens, and the modulation of intestinal microbiota across various life stages—from larvae to broodstock—are particularly welcome. The scope for this Section includes research on the following topics:

- Nutrition and its impact on fish physiology.
- Nutrients and their relation to microbiota modulation.
- Nutrigenomics.
- Live feed and their enrichment for fish larvae.
- Sustainable alternative fish.
- Feeding strategies.
- Broodstock nutrition.
- Endocrinological aspects of supplementation or ingredient replacement.

Guest Editors

Dr. Dariel Tovar-Ramírez

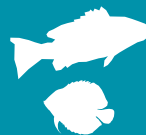
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About the Journal

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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