

Special Issue

Optimizing Farm-Raised Fish Production: Nutritional Requirements, Precision Feed Formulations, Sustainable Feeding Strategies, and Health and Welfare

Message from the Guest Editors

This Special Issue will cover significant advancements in our understanding of precise fish nutrition requirements and feed formulations for aquaculture. It aims to update and redefine dietary needs such as protein, essential amino acids, vitamins, and key minerals for fish growth and health across various production scenarios. The issue will evaluate new protein and energy ingredients in feeds and explore how nutrition integrates with systems like immunocompetence, promoting optimized immune function to combat infections. Studies may include how different diets improve gut integrity and overall health, reducing disease risk. With increased environmental stressors like climate change, aquaculture faces new challenges affecting metabolism and physiological processes, potentially compromising welfare. Emerging opportunities include exploring new dietary ingredients and supplements with functional properties, such as bioactive natural agents. Linking nutrition and feeds to the welfare of farmed fish is central to this theme.

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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 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

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