

Special Issue

Amino Acid Supplementation in Fish Nutrition and Welfare

Message from the Guest Editors

Amino acids are the building blocks of protein synthesis, thus representing the foundations for growth. In recent years, their importance as regulators of key metabolic functions has been acknowledged. The aquaculture industry has grown exponentially, always facing several challenges toward more sustainable production. Nutrition is key for achieving this goal and amino acids play a fundamental role, as a strategy to balance the profile of alternative protein sources or as functional ingredients to increase fish robustness and resilience. In this Special Issue, we invite contributions focusing on the use of amino acids for fish and shrimp nutrition, at all developmental stages, in the following research topics:

- Amino acid metabolism and requirements;
- Amino acids as promoters of fish/shrimp performance and robustness;
- Use of non-proteinogenic amino acids (such as taurine, ornithine, hydroxyproline, etc.) in fish nutrition;
- Impacts of amino acids on the stress response and immunological, antioxidant, and health status.

Guest Editors

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Deadline for manuscript submissions

closed (15 February 2025)



Animals

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Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



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About the Journal

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 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

Editor-in-Chief

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