



Amino Acid Supplementation in Fish Nutrition and Welfare

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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