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Advances in Dietary Protein Research: Shaping Innovative Feeds for a Sustainable Ocean

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Message from the Guest Editors

Aquaculture is facing the challenge to find alternative ingredients for innovative feed formulations that foster a sustainable growth. Protein is the most expensive ingredient in feeds for fish and shrimp and research on alternative protein sources to fishmeal is being fruitful in the surge of sustainable feeds. Current knowledge indicates that the importance of protein and its constituents goes beyond growth. It is of utmost importance to gather information on how alternative proteins, hydrolysates and amino acids affects growth performance and impact the immune system and disease resistance, to develop innovative feeds for fish and shrimp that guarantee a sustainable ocean future.

In this Special Issue, we invite contributions focusing on protein nutrition in fish and shrimp, in all developmental stages, in the following research topics:

- protein and amino acid requirements;
- alternative dietary proteins;
- inclusion of protein hydrolysates and amino acids as nutritional strategies to improve fish performance and robustness;
- effects of alternative proteins, hydrolysates, and amino acids on stress and/or immune responses, and their impacts on health and welfare.



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Special Issue



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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: 3.0 (2022, ranks 12 /62 (Q1) in ‘Agriculture, Dairy & Animal Science’; 13/143 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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