



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

Guest Editors:

Dr. Cláudia Aragão

CCMAR, Universidade do Algarve
Campus de Gambelas, edf 7,
8005-139 Faro, Portugal

Dr. Sofia Engrola

CCMAR, Universidade do Algarve-
Campus de Gambelas, 8005-139
Faro, Portugal

Dr. Benjamín Costas

Interdisciplinary Centre of Marine
and Environmental Research
(CIIMAR), University of Porto,
4450-208 Matosinhos, Portugal

Deadline for manuscript
submissions:

closed (1 June 2022)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine
and Animal Sciences, Estonian
University of Life Sciences,
Kreutzwaldi 1, 51014 Tartu,
Estonia

2. Curtin University Sustainability
Policy (CUSP) Institute, Kent St.,
Bentley 6102, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

Journal Rank: JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

Contact Us

Animals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/animals
animals@mdpi.com
[X@Animals_MDPI](#)