

Special Issue

Feed Ingredients and Fish Mucosal Health

Message from the Guest Editors

The incorporation of fishmeal (FM) and fish oil (FO), the golden standard nutritional sources for marine fish species, has been reshaped according to new trends towards greener or land-based aquafeeds. FM and FO replacement by alternative raw materials has been shown to hamper fish growth, immunocompetence and wellbeing. Within mucosal immunity, the gut-associated lymphoid tissue (GALT) is particularly relevant in the interconnection between fish nutrition and immunity. Thus, monitoring and improving GALT status and unveiling the potential of particular feed ingredients to boost the immune system (at cellular and molecular levels), especially with those coming from agri-food byproducts seems to be a cornerstone to achieve good growth and wellbeing in farmed fish, but also to expand the implementation of circular economy in Western aquaculture. This Special Issue aims to present recent insights on how feed ingredients positively or negatively affect fish growth and immunity, particularly at GALT. Original research articles and reviews with fundamental or applied perspectives, combining classical and innovative approaches, are welcome.

Guest Editors

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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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