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## Feed Ingredients and Fish Mucosal Health

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### 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.



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# Special Issue



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## Message from the Editor-in-Chief

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