

Special Issue

Pathogenesis and Nutritional Intervention of Gut-Brain Inflammation in Fish

Message from the Guest Editors

Intestinal inflammation is one of the most common diseases of fish in intensive farming. Inflammation may contribute to or result from the dysregulation of gut microbiota. Moreover, intestinal dysregulation can cause alterations of the blood–brain barrier and trigger neuroinflammation. While the intestine–brain interplay is an important parameter in fishes’ wellbeing and health status. Awareness of this correlation between diet and gut-brain health is expected to aid the aquaculture industry in developing proper nutritional strategies that ensure the protection of fish health.

In this Special Issue, we intend to focus on the use of feed and feed additives to strengthen the immune function, intestinal barrier function and gut-brain axis in aquatic animals. We invite authors to contribute to this Special Issue with papers on this theme or related research topics in order to improve our knowledge of the role of nutritional intervention in the immunity of fish, and to propose innovative solutions to improve the immune system, prevent intestinal inflammation, and develop targeted dietary interventions.

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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 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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