

Special Issue

Fish Gut Microbiota and Host Health: Current Advances and Emerging Frontiers

Message from the Guest Editors

The intestinal health of fish is intimately connected to the structure and function of its gut microbiota. The intestinal microbiota has increasingly been recognized as an additional functional organ, playing a crucial role in the development of the host, nutrient absorption, immune modulation, and disease resistance. A balanced microbiota (eubiosis) fosters beneficial host-microbe interactions, while dysbiosis, triggered by environmental, physiological, or infectious factors, can disrupt the physiology of fish and compromise growth and immune performance. This Special Issue welcomes the submission of original research articles, communications, and reviews focused on the diversity and function of the gut microbiota in fish, immune mechanisms and local/systemic responses, inflammation, and oxidative stress biomarkers. We also encourage the submission of studies that explore strategies such as the use of probiotics and research that employs fish models and aquaculture-relevant species. This Special Issue aims to advance our understanding of microbiota-host interactions and their implications for fish health in both experimental and aquaculture settings.

Guest Editors

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Deadline for manuscript submissions

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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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