

## Special Issue

# The Gut Microbiota of Farmed Aquatic Animals: Current Strategies and Perspectives in Environment and Dietary Modulation for Enhanced Health and Resilience in Aquaculture

### Message from the Guest Editors

This Special Issue of *Animals* will address the dynamic role of the microbiome in relation to influence on normal physiology, metabolism, and interaction with the intestinal mucosal interface. We desire to examine the complex role and synergy of the microbial population in farmed fish in terms of supporting health and optimum performance, such as growth and feed conversion efficiency. The tolerance of fish to various infections and defense system mechanisms due to the gut flora will be of immense interest. The breaching of these barriers (gut mucosal barrier) can generate inflammatory pathways leading to pathogenic insult, disease, and mortality. It is important to appreciate the potential to exert a positive corrective influence through dietary modulation and use of functional feed additives and dietary supplements such as prebiotics and probiotics to create a more resilient and robust fish via modulation of the immunological system. This will be a new avenue for healthier farmed fish and achieve a pathway for higher welfare status.

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### Guest Editors

Prof. Dr. Simon Davies  
Dr. Alex Wan  
Dr. Cecília Souza-Valente

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### Deadline for manuscript submissions

closed (5 December 2022)



## Animals

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## About the Journal

### 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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### Editor-in-Chief

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