



Dietary Components and Gut Microbes in Fish

Guest Editors:

Prof. Dr. Shimei Lin

College of Fisheries, Southwest
University, Chongqing, China

Dr. Yongjun Chen

College of Fisheries, Southwest
University, Chongqing, China

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

The gastrointestinal tract is as one of the major routes of infection in fish. Thus, healthy gut microbiota is essential to promote host health and well-being of fish. The intestinal microbiota of fish is classified as autochthonous when they are able to colonize the host's epithelial surface or are associated with the microvilli, or as allochthonous (associated with digesta or present in the lumen). The gut microbiota of fish is highly sensitive to dietary changes. It is demonstrated that dietary macronutrients, micronutrients, and feed additives (including but not limited to functional glycomic ingredients, probiotics, prebiotics, synbiotics, and immunostimulants) substantially affect the gut microbiota of fish. Furthermore, some information is available on bacterial colonization of the gut enterocyte surface as a result of dietary manipulation, which indicates that changes in indigenous microbial populations may have repercussions on secondary host–microbe interactions.

This Special Issue aims to gather up-to-date research on the effect of dietary components on the gut microbiota.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology (medical)*)

Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI