

Special Issue

Fish Mucosal Physiology and Immunology

Message from the Guest Editor

Fish have developed mechanisms to ensure their survival and adaptation in aquatic environments, where a multitude of challenges present a constant threat. Because of their intimate contact with water, fish face more significant pressure in coping with challenges in the immediate environment, compared with terrestrial animals. The mucosal surfaces (i.e., skin, gill, gut, and nasal) are at the forefront in combatting these threats. Hence, they are known to constitute the first line of defence. Several players (e.g., microbes, cells, and molecules) of the mucosa are tightly coordinated to ensure homeostasis, and that orchestrated actions are carried out against imminent dangers. This Special Issue aims to gather novel research and emerging frontiers in the molecular and cellular basis of fish mucosal physiology and immunology. Fundamental and applied research are welcome. Review papers are also encouraged provided that the chosen topic is discussed in the broader context and knowledge gaps and future perspectives have been identified.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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