



## Bacterial Infection and PRRs-Mediated Innate Immune Responses in Fish

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### Message from the Guest Editors

Dear Colleagues,

The innate immune system is able to recognize a large variety of pathogens through different families of pattern-recognition receptors (PRRs), which are often conserved among plants, invertebrates and vertebrates. Compared with those homologues from higher vertebrates, increasing evidences have demonstrated that piscine PRRs and those effector molecules involved in PRRs-mediated signaling pathways undergo diverse alternative splicing, gene duplication or gene expansion. This Special Issue seeks manuscript submissions that further insight our understanding of exploring pattern recognition by these PRRs, induced signaling pathways by these PRRs, cross-talks between these PRRs, and effector functions mediated by these PRRs in response to bacterial infections. It also aims to address the roles of innate effector molecules involved in PRRs-mediated signaling pathways, which cover, but are not limited to antimicrobial peptides and cytokines.

keywords: Pattern recognition receptors; antimicrobial effector molecules; PRRs-mediated signaling pathways; immune regulation; bacterial infection





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## Editor-in-Chief

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## Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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