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Immunogenetics of Aquatic Animals

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Message from the Guest Editors

Aquatic environments are teeming with various vertebrate and invertebrate species, and research on the immunogenetics of aquatic animals is behind in comparison to that on their tetrapod counterparts.

However, recent advances in genomic and transcriptomic analyses have spotlighted these often-overlooked non-model aquatic animals. These analyses uncover the fundamental aspects of vertebrate immune systems and highlight the unique evolution of immune-related genes in these animals.

This Special Issue aims to spotlight the vast realm of immunogenetics in aquatic animals. More than just understanding the functional significance and regulatory network of these genes, the goal is also to elucidate how they play into the larger picture of vertebrate evolution and immune response mechanisms between host and microbe interaction. We invite submissions covering, but not limited to, molecular mechanisms in immune-related genes in aquatic animals, comparative analysis of immune genes across species, and their applications in sustainable aquaculture by controlling diseases in aquaculture.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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