



animals



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The Innate Immune Responses of Fish to Infectious Diseases

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Message from the Guest Editors

Innate immunity is the first line of defense to prevent non-self agents from entering and harming an individual. Evolution of the first single-celled organisms required the ability to distinguish self from non-self. This discrimination is the basis of immunity. Innate immunity is present in invertebrates, and began its diversification 530 million years ago, in the first fish. Unique modifications of innate immunity can be present in different types of fish. This Special Issue will bring readers up to date with the varied innate immune responses of fish to infectious diseases, and will include research and review articles about humoral and cell-mediated innate immune responses from different types of fish. The elucidation of common, unique and novel innate immune mechanisms among fishes allows us to better understand the ways the innate immune system can help defend against infectious agents in all vertebrates.



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Special Issue



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Message from the Editor-in-Chief

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