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Genetics and Genomics Applied to Manage Diseases in Aquaculture

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Deadline for manuscript
submissions:

closed (20 June 2024)

Message from the Guest Editors

Dear Colleagues,

Aquaculture is the leading source of aquatic food for humans, and it substantially contributes to global food production. One of the consistent problems in aquaculture is the management of health, since an increased fish density results in elevated stress, often leading to outbreaks of deadly diseases induced by viruses, bacteria, parasites, and fungi.

The marine environment could be a source of potential pathogens for organisms. The microbiomes of different animals have been widely explored with well-established technologies, such as 16S and 18S rRNA gene sequencing that identifies, classifies, and quantifies the prokaryote and eukaryote communities of the considered sample.

This Special Issue is open to contributions that integrate different approaches to understand how the disease process is altered by the different conditions in which aquatic organisms live. Research papers that integrate the classical approaches such as histology, functional immune assays with newly adopted techniques such as NGS, metatranscriptomics, and environmental parameters are encouraged. Reviews are also welcome.



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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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