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Genetics and Molecular Breeding in Fisheries and Aquaculture

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Message from the Guest Editors

Dear Colleagues,

With decades of efforts, scientists have made remarkable achievements in characterizing genomic structure, genomic variations, and the genetic basis of economically important traits of aquaculture species, which is helpful to improve production efficiency in order to satisfy consumer demands and improve the commercial profits of fisheries and aquaculture. Genetic dissection of important economic traits, including growth rate, disease resistance, sexual determination, and tolerance of various environmental stressors in aquaculture animals, has become the focus of basic research. In this Special Issue, we are interested in publishing research articles and reviews on genetics and molecular breeding in fisheries and aquaculture, including WGS and fine mapping, the construction of high-density genetic maps, trait-related markers, sex control, genome editing, multi-omics combinations of genome, transcriptome, proteome, metabolome, and epigenome, and other molecular breeding technologies application in aquatic genetics and breeding.

Dr. Lei Liu
Guest Editor



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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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