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Genetic Improvement of Aquatic Species

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Aquatic species are of great importance for maintaining the ecological stability, function and services of marine and freshwater ecosystems, and for supplying food resources for human beings. Given the high biodiversity and diverse phenotypic and biological features, comparative genetics studies of wild and cultured aquatic species are widely performed for genetic diversity estimation, functional gene mining, gene expression analyses, among others, and can provide essential information for further genetic and selective breeding. The advancement of next-generation sequencing techniques and bioinformatics analytical methods largely facilitate the evolutionary and developmental biology of aquatic species by using multi-omics approaches, especially for species with high-quality reference genome sequences.

Research articles and reviews focusing on comparative genetics analyses of aquatic species, especially using high-throughput techniques including RNA-seq, genotyping-by-sequencing, RAD-seq, and whole-genome resequencing, will be appreciated, as well as manuscripts covering other genetic studies of aquatic species.



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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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