



Genomic Prediction and Functional Genomics in Aquaculture

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Message from the Guest Editors

This Special Issue focuses on two major research areas: genomic prediction/selection and functional genomics in aquaculture. Topics include but are not restricted to the following:

1. Genomic prediction for complex quantitative traits of commercial importance in aquaculture species
2. Development and use of advanced on-farm data collection systems for improving aquaculture breeding programs
3. Relationship between genotype and phenotype on a genome-wide (genome-, transcriptome-, proteome-, metabolome or epigenome-wide) scale
4. Utilization of 'natural' genetic variation to enhance aquaculture breeding
5. Functional genomic resources, such as expressed sequence tags, full-length cDNAs, and gene expression profiles
6. Understanding and manipulating key biological genetic pathways for genetic improvement of important aquaculture species
7. RNA silencing and CRISPR/CAS9 applications in aquaculture
8. Bioinformatics tools that integrate and analyze data obtained from multiple 'omics' platforms
9. Improving aquaculture genetic improvement programs through the incorporation of G×E effects.





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Message from the Editor-in-Chief

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