Journal of
Marine Science and Engineering

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Genomic Prediction and Functional Genomics in Aquaculture

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Deadline for manuscript submissions:
closed (30 June 2021)

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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Editor-in-Chief

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Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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