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Genetic Breeding and Genomics of Marine Shellfish

Guest Editor:

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Message from the Guest Editor

Shellfish constitute the second largest phylum in the world, with more than 110,000 species. In recent years, the role of genetic breeding in the development of the marine shellfish culture industry has become more and more prominent. Following the rapid development of next-generation sequencing (NGS), an increasing number of methodologies have been developed for the cost-effective genotyping of SNPs in aquaculture animals, such as whole-genome sequencing, restriction-site-associated DNA sequencing (RAD-seq), and GBS.

This Special Issue will cover aspects of the genetic breeding and genomics of shellfish species, such as breeding approaches, genome sequencing, gene variants, the identification of genetic markers, population genetics, functional genes related to traits, the construction of genetic linkage maps, QTL localization and the construction of shellfish genetic breeding systems. This topic will provide valuable information on genetic breeding technologies and approaches, contributing to improving breeding progress, economic traits and resistance to abiotic stresses.



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Special Issue



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Message from the Editor-in-Chief

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