

Special Issue

Genetic Breeding and Genomics of Marine Shellfish

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 stress.

Guest Editor

Prof. Dr. Donghong Niu

College of Fisheries and Life Science, Shanghai Ocean University,
Shanghai 201306, China

Deadline for manuscript submissions

closed (20 October 2022)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/107254

Genes

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



About the Journal

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.

Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham,
1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))