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Genetic Breeding of Aquaculture

Guest Editors:

Dr. Dianchang Zhang

Deputy Director, Division of
Aquaculture & Genetic Breeding,
South China Sea Fisheries
Research Institutes, Chinese
Academy of Fishery Sciences,
Guangzhou 510300, China

Dr. Kecheng Zhu

Division of Aquaculture & Genetic
Breeding, South China Sea
Fisheries Research Institutes,
Chinese Academy of Fishery
Sciences, Guangzhou 510300,
China

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Message from the Guest Editors

The rapid development of aquaculture genetic breeding has brought about huge economic benefits to the global aquaculture industry. Along with the rapid development of biotechnologies, aquaculture genetic breeding has transformed from traditional selection breeding and hybrid breeding to cell engineering breeding, sex control breeding, marker-assisted selection breeding, genome-wide genotyping-based selective breeding, molecular design breeding, and genome editing breeding. Advances in basic research and the biotechnology of aquaculture genetic breeding have promoted the formation of the aquaculture seed industry in the world.

This Special Issue aims to provide a snapshot of current aquaculture genetic breeding methods, focusing on breeding technique, gene function, genomics, population genetics, genome editing, and so on. Contributions might shed light on the theoretical basis of genetic breeding technology of aquatic organisms, explore novel breeding approaches, analyze the genetic mechanism of the formation of good traits, and so on. Contributions by experts in the field in the form of research papers and critical reviews are invited.



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Special Issue



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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

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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Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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