

Special Issue

Genetics and Genomics in Aquatic Animals

Message from the Guest Editors

With the rapid development of genetics and genomics, the mechanisms involved in primary sex determination and differentiation in aquatic animals are now beginning to be defined. A lot of gonadal differentiation types and sex determination mechanisms have been described in aquatic animals. Sex determination in aquatic animals is a very flexible process. For instance, according to the role of temperature in sex determination, the sex-determining mechanisms in fish can be broadly classified as genotypic (GSD), temperature (TSD), or genotypic plus temperature effects (GSD + TE). Research on the genetic basis and potential mechanisms of sex determination and differentiation is necessary for application in aquaculture and species conservation. In recent decades, remarkable progress has been achieved in the genetics and genomics of sex determination and differentiation in aquatic animals. For this Special Issue, we will present state-of-the-art articles on the genetics and genomics of sex determination in aquatic animals, assembling the most recent advances in our field in one place.

Guest Editors

Prof. Dr. Xiangshan Ji

College of Animal Science and Technology, Shandong Agricultural University, Taian 271018, China

Dr. Qiaomu Hu

Yangtze River Fisheries Research Institute, Chinese Academy of Fishery Sciences, Wuhan 430223, China

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

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About the Journal

Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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

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