## **Special Issue**

# Advances in Genetic Improvement of Aquacultural Species

### Message from the Guest Editors

Aquaculture is the fastest-growing sector in global food production and plays a vital role in ensuring food security and sustainable development. Genetic improvement provides powerful strategies to enhance key traits such as growth, disease resistance, reproduction, stress tolerance, and product quality. With the rapid advancement of genomic technologies—including whole-genome sequencing, genome-wide association studies (GWASs), genomic selection, transcriptomics, and genome editing.

We welcome original research articles, reviews, and short communications that address, but are not limited to, the following themes:The conservation, utilization, and enhancement of genetic resources in aquaculture;

The integration of multi-omics technologies for trait characterization and discovery;

The identification and functional validation of genes and molecular markers linked to breeding traits;

The genomic selection and the optimization of breeding programs;

Applications of genome editing in the genetic improvement of aquacultural species.

## **Guest Editors**

Dr. Haiyang Liu

Key Laboratory of Tropical and Subtropical Fishery Resources Application and Cultivation, Ministry of Agriculture and Rural Affairs, Pearl River Fisheries Research Institute, Chinese Academy of Fishery Sciences, Guangzhou 510380, China

Dr. Wanchang Zhang

School of Life Sciences, Nanchang University, Nanchang 330031, China

#### Deadline for manuscript submissions

30 June 2026



an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/256403

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

mdpi.com/journal/animals





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Impact Factor 2.7 CiteScore 5.2 Indexed in PubMed



## About the Journal

## Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. Animals adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. Animals is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

#### Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

- 1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, WA 6102, Australia
- 2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

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