Special Issue

Genetics, Breeding, and Farming of Aquatic Animals

Message from the Guest Editors

Breeding biotechnology encompasses both classical and modern methods. Traditional breeding methods, including hybridization, family breeding, mass selection, and gynogenesis. Alongside these, modern breeding techniques such as genomic selection, marker-assisted selection, genetic modification, somatic cell cloning, and stem cell techniques have emerged, paving the way for genetic improvements in aquatic animals. These cutting-edge techniques offer novel opportunities regarding the development of breeding and farming in aquatic animals. Healthy aquaculture prioritizes practices that align with natural ecosystems, striving to minimize our environmental footprint and promote the well-being and health of aquatic species under cultivation.

The Special Issue aims to compile papers presenting both fundamental and applied research in the genetics, physiology, breeding, and farming of aquatic animals. We invite you to submit original research articles and reviews on diverse aspects of genetics, physiology, breeding, and farming in aquatic organisms. We welcome the submission of both original research articles and reviews to this Special Issue.

Guest Editors

Prof. Dr. Min Tao

Prof. Dr. Chenghui Wang

Prof. Dr. Qizhi Liu

Deadline for manuscript submissions

31 December 2025

Animals

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/205998

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

mdpi.com/journal/animals

Animals

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/animals

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. Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia
2. Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia

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, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

MDPI