

Special Issue

Fish Reproductive Biology and Embryogenesis

Message from the Guest Editors

Fish have evolved diverse reproductive strategies and developmental processes over millions of years. Understanding species survival, adaptation, and diversification hinges on the mechanisms governing fish reproduction and embryogenesis, from external fertilization to complex parental care. Advances in reproductive endocrinology, gametogenesis, and embryonic growth highlight key genetic, chemical, and environmental factors shaping reproductive success. Ongoing research on oogenesis, spermatogenesis, sex differentiation, hormonal regulation, and climate change effects continues to refine our knowledge. Additionally, emerging embryological studies explore axis formation, morphogen gradients, epigenetic regulation, and maternal effects. This Special Issue invites original research and analyses on fish reproduction and development from evolutionary, ecological, physiological, and molecular perspectives. By integrating comparative morphology, genomics, and multidisciplinary approaches, we aim to deepen our understanding of fish biology and its broader evolutionary and developmental implications.

Guest Editors

Dr. Renato Massaaki Honji

Departamento de Fisiologia, Instituto de Biociências, Universidade de São Paulo (IB/USP), São Paulo, SP, Brazil

Dr. Amanda da Silveira Guerreiro

Departamento de Fisiologia, Instituto de Biociências, Universidade de São Paulo (IB/USP), São Paulo, SP, Brazil

Deadline for manuscript submissions

31 August 2026



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/233410

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

[mdpi.com/journal/
animals](https://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](https://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
Curtin University Sustainable Policy (CUSP) Institute, Curtin University,
Kent St., Bentley, WA 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)