

Special Issue

Polygene and Polyprotein Research on Reproductive Traits of Livestock

Message from the Guest Editor

Animal reproduction is a cornerstone of livestock production, with significant advancements driven by reproductive technologies and genetic regulation. Modern assisted reproductive techniques, such as in vitro fertilization (IVF), ovum pick-up (OPU), and multiple ovulation and embryo transfer (MOET), have become indispensable in breeding programs. The integration of molecular marker-assisted gene technology and the study of polygenic aggregation effects have further enhanced the precision and effectiveness of breeding strategies. The application of molecular marker-assisted gene technology enables the identification of key genes associated with reproductive traits, while the study of polygenic aggregation effects helps in understanding how multiple genes interact to influence reproductive performance. This knowledge is crucial for developing advanced breeding programs that can meet the increasing demands of animal production.

Guest Editor

Dr. Guangbin Liu

College of Animal Science, South China Agricultural University,
Guangzhou 510642, China

Deadline for manuscript submissions

31 January 2026



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/234569

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

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)