

## Special Issue

# Genetic Breeding and Reproduction in Livestock

### Message from the Guest Editor

The field of genetic breeding and reproduction in livestock is rapidly growing due to major advancements in sequencing technology and gene editing. While genetic breeding and reproduction in livestock has shown promise in improving animal reproduction, health, and the economic viability of farms, the loss of genetic diversity, the limitations and cost of the technologies, and the difficulties around precise phenotyping remain the current problems in genetic breeding and reproduction.

This Special Issue aims to highlight the trends, barriers, and opportunities in the utilization of genomic selection, marker-assisted breeding, and gene editing techniques (like CRISPR-Cas9) that enhance desirable traits such as disease resistance, feed efficiency, productivity, and product quality. This Special Issue will also cover reproductive technologies such as artificial insemination, embryo transfer, and in vitro fertilization, which accelerate genetic progress and dissemination. We welcome the submission of both research and review articles to this Special Issue.

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### Guest Editor

Dr. Hongmei Zhu

College of Veterinary Medicine, Huazhong Agricultural University,  
Wuhan, China

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### Deadline for manuscript submissions

25 July 2026

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## Genes

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*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto: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?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
Experimental Cancer Therapeutics, The University of Alabama at  
Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-  
2182, USA

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