



*genes*



an Open Access Journal by MDPI

## Genetics and Breeding in Sheep and Goats

Guest Editor:

### Dr. Shaobin Li

College of Animal Science and  
Technology/Gansu Key  
Laboratory of Herbivorous  
Animal Biotechnology, Gansu  
Agricultural University, Lanzhou  
730070, China

Deadline for manuscript  
submissions:

**20 December 2024**

### Message from the Guest Editor

Dear Colleagues,

Domestic sheep and goats are valuable farm animals that provide us with meat, milk, and textile fiber. Most of these traits are quantitative and controlled by multiple genes and environments. Elucidating the genetic and epigenetic mechanisms of these economic traits is critical to understanding how a trait comes into being. As for epigenetics, DNA methylation, histone modification, chromatin remodeling, and non-coding RNA are key factors involved in gene expression regulation. The objective of this issue is to explore genetic and epigenetic factors affecting sheep and goat phenotypes. We focus on not only the economic traits of sheep and goats, but also their resistance and adaptability. We welcome original research articles, brief research reports, and reviews covering (but not limited to) the following topics: 1) Functional gene variation affecting phenotypes; 2) Identification of gene function; 3) Gene regulatory network; 4) Gene expression regulation; 5) Epigenetic regulation (DNA methylation, histone modification, chromatin remodeling and non-coding RNA); 6) Genetic factors affecting the resistance and adaptation of sheep and goats.



[mdpi.com/si/156970](https://mdpi.com/si/156970)

**Special** Issue



*genes*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Selvarangan Ponnazhagan**

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

## Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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?

## 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, MEDLINE, PMC, Embase, PubAg, and other databases.

**Journal Rank:** JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

## Contact Us

---

*Genes* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](#)