



*genes*



an Open Access Journal by MDPI

## Genetics and Genomics in Livestock Production and Disease Resistance

Guest Editors:

**Dr. Dawei Wei**

College of Animal Science and Technology, Ningxia University, Yinchuan 750021, China

**Dr. Sayed Haidar Abbas Raza**

College of Animal Science and Technology, Northwest A&F University, Yangling 712100, China

**Dr. Rajwali Khan**

Department of Livestock Management, Breeding and Genetics, The University of Agriculture Peshawar-Pakistan, Peshawar, Pakistan

Deadline for manuscript submissions:

**closed (25 September 2023)**

### Message from the Guest Editors

Dear Colleagues,

The demand for animal products is rising with a growing global population. At the same time, livestock industries face the challenges imposed by various factors including climate changes, disease outbreaks, inbreeding, mutations, ill-planned cross breeding, etc. One of the most sustainable methods of increasing livestock productivity is the application of genetics and genomics techniques. Understanding the heritability, the molecular mechanisms and how to manipulate the genome to create the most efficient livestock species will benefit us all. This Special Issue in *Genes* on “Genetics and Genomics in Livestock production and disease resistance” will highlight how genomics technologies are paving the way to improve livestock systems. The Issue will provide an overview of recent developments in this field of research, including critical perspectives on current and upcoming challenges. This Issue will mostly focus on the application of quantitative genetics, molecular genetics and omics technologies such as transcriptomics, proteomics and metabolomics techniques for livestock production and disease resistance.



[mdpi.com/si/152762](https://mdpi.com/si/152762)

# Special Issue



*genes*



an Open Access Journal by MDPI

## 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

## 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?

## 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](https://twitter.com/Genes_MDPI)