

## Special Issue

# Livestock Germplasm Resources, Genetics, and Breeding

### Message from the Guest Editors

This Special Issue, “Livestock Germplasm Resources, Genetics, and Breeding”, will present a comprehensive examination of contemporary advancements in animal breeding science, emphasizing innovative methodologies, genetic research, and the integration of genomics into livestock production systems. This Special Issue will highlight cutting-edge studies aimed at enhancing economically important traits, optimizing genetic gain, and promoting sustainable and resilient breeding strategies. Contributions will explore a spectrum of approaches—from traditional selection schemes to advanced genomic selection, marker-assisted breeding, and functional genomics—illustrating the pivotal role of molecular tools in shaping next-generation breeding programs. Through in-depth analyses and applied case studies, this Special Issue will address the challenges and opportunities inherent in modern genetic improvement, providing critical insights to increase productivity and animal health and welfare across a range of livestock species.

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### Guest Editors

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### Deadline for manuscript submissions

25 September 2026

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## Genes

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### 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  
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