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Genetics and Genomics in Livestock Production and Disease Resistance

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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.



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Special Issue



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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.

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