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Genetics and Genomics Research of Poultry

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Deadline for manuscript submissions:

closed (25 April 2024)

Message from the Guest Editors

Dear Colleagues,

Poultry genetic breeding is a rapidly developing field. In the past few decades, quantitative-, population-, and molecular genetic methods have been widely used to elucidate the biological mechanisms underlying important economic traits in poultry. In recent years, cutting-edge genetic and genomic technologies, such as next-generation sequencing and omics applications, have advanced our understanding of the mechanisms of complex traits in poultry, including feed utilization efficiency, behaviour and welfare, meat and egg quality, and disease resistance. Genetics and genomics research have been broadly studied and applied to the breeding of fine line laying hens and broilers. In addition, gene editing is of great value for characterizing gene function and will be a future challenge for poultry breeding.

This Special Issue aims to publish recent advances in various areas of poultry genetics and genomics, including, but not limited to, the following topics: poultry genomics, functional genomics, phenomics, metabolomics, epigenetics, the gut microbiome, genome selection, genetic assessment, the application of omics data, and gene/genome editing.



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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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