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Poultry Breeding: Genetics and Genomics

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Message from the Guest Editors

This Special Issue, entitled “Poultry Breeding: Genetics and Genomics”, aims to collect high-quality research articles, review articles, and communications on advances in the molecular genetics and genomics of poultry. Improving poultry egg and meat production plays an important role in reducing hunger and maintaining food security around the world. Developments in poultry genetics and breeding have come in part from genetic selection for improved feed efficiency and a better understanding of poultry nutrition. A growing body of research indicates that genetics and genomes have a strong influence on the growth, development and egg-laying performance of poultry. With the development and popularization of sequencing technology, we look forward to witnessing more cutting-edge research in molecular genetics and functional genomes related to chickens, ducks, geese and other species.

Topics of interest for this Special Issue include, but are not limited to:

- Epigenetics in poultry;
- Gene regulation in poultry;
- Multi-omics data analysis, including the transcriptome and metabolome ;
- Genome-wide association analysis;
- Variations such as SNPs and Indels in genes.



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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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