Special Issue

Genetic Resource Evaluation and Germplasm Innovation of Poultry

Message from the Guest Editors

Poultry species provide humans with a vital source of protein. These avian species exhibit a rich genetic and phenotypic diversity due to their large populations and high reproductive capacity. Multi-omics technologies, including genomics, transcriptomics, proteomics, and epigenetics, support the exploration of trait formation, yet there remains debate over the regulatory mechanisms of phenotypic traits. This Special Issue focuses on the phenotypic diversity and characterization methods of poultry traits; the identification, function, and role of key candidate genes in trait regulation; the contribution of the polygene hypothesis and related models to the formation of poultry traits; and the latest advancements and discoveries in the epigenetic analysis of poultry traits. We aim to provide an overview and discussion on these topics, hoping to offer insights that will enrich and deepen our understanding of the regulatory mechanisms behind livestock phenotypic traits. This journal particularly welcomes articles that present viewpoints and reviews, with the intention of enhancing and expanding the regulatory mechanisms of livestock phenotypic traits.

Guest Editors

Prof. Dr. Zhonghua Ning

Prof. Dr. Dehe Wang

Dr. Long Liu

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

mdpi.com/journal/agriculture





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Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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