

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

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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