Special Issue

Genetics and Breeding in Sheep and Goats

Message from the Guest Editor

Domestic sheep and goats are valuable farm animals that provide us with meat, milk, and textile fiber. Most of these traits are quantitative and controlled by multiple genes and environments. Elucidating the genetic and epigenetic mechanisms of these economic traits is critical to understanding how a trait comes into being. As for epigenetics, DNA methylation, histone modification, chromatin remodeling, and non-coding RNA are key factors involved in gene expression regulation. The objective of this issue is to explore genetic and epigenetic factors affecting sheep and goat phenotypes. We focus on not only the economic traits of sheep and goats, but also their resistance and adaptability. We welcome original research articles, brief research reports, and reviews covering (but not limited to) the following topics: 1) Functional gene variation affecting phenotypes; 2) Identification of gene function; 3) Gene regulatory network; 4) Gene expression regulation; 5) Epigenetic regulation (DNA methylation, histone modification, chromatin remodeling and non-coding RNA); 6)Genetic factors affecting the resistance and adaptation of sheep and goats.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2024)

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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