

Special Issue

Genetics and Breeding for Enhancing Production Traits in Ruminants

Message from the Guest Editor

Understanding the genetic architecture underlying economically important traits is essential for advancing ruminant breeding and sustainable livestock production. With the growing availability of high-throughput sequencing technologies, genome-wide analyses have enabled the identification of selection signals, functional variants, and key genes associated with traits such as growth, reproduction, disease resistance, and environmental adaptation. This research topic, '*Genetics and Breeding for Enhancing Production Traits in Ruminants*', aims to highlight recent advances in genetic diversity assessment, population structure analysis, and the discovery of functional genes in both indigenous and commercial breeds. We welcome contributions that explore genome-wide selection signatures, functional genomics, and molecular breeding strategies, with a focus on enhancing genetic improvement and preserving valuable genetic resources in ruminants.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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