

Special Issue

Advanced Welfare-Oriented, Efficient, and High-Quality Ruminant Production: Mechanisms and Practices

Message from the Guest Editors

The rapid advancement of modern biological technologies and agricultural engineering offers novel approaches to enhancing animal welfare, boosting the efficiency of production, and improving the quality of products in ruminant production systems. This Special Issue welcomes the submission of articles that address the application of cutting-edge technologies—including bio-based feeds, microbial fermentation and other innovative feed processing techniques, advanced breeding strategies, intelligent livestock farming equipment, and novel feed additives—to improve animal health (e.g., gut microbial balance, antioxidation, and stress resilience) and enhance the efficiency of production and quality of ruminant-derived products (e.g., meat and milk). We also welcome studies utilizing multi-omics approaches (e.g., phenomics, genomics, metabolomics, metagenomics, etc.) to explore key scientific questions related to achieving welfare-oriented, efficient, and high-quality ruminant production.

Guest Editors

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About the Journal

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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