Special Issue

Nutritional Modulation Strategies for Rumen Microbiota Structure and Methane Emissions

Message from the Guest Editors

Ruminant livestock serves as a critical pillar of agriculture due to their efficient conversion of roughage into high-value products such as meat and milk, thereby ensuring food security and fostering a circular economy in agriculture. However, methane emitted during the digestion process of ruminants, including cattle and sheep, is a significant greenhouse gas with potent global warming potential. Excessive methane emissions contribute substantially to climate change. Consequently, it is essential to thoroughly investigate the influence that feeding management has on methane emissions. By optimizing feed formulations and feeding strategies while maintaining the growth performance of livestock, it is possible to reduce methane emissions, enhance feed utilization efficiency, and decrease production costs, ultimately achieving sustainable development in the livestock industry and ensuring the stable supply of meat, milk, and other animal-based products.

Guest Editors

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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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