

Special Issue

Adapting Novel Nutritional Practices to Enhance Product Quality and Environmental Sustainability in Ruminant Livestock Sector

Message from the Guest Editor

Globally, the ruminant livestock sector is facing two major concerns: product quality and environmental impacts. In this context, novel feed ingredients will serve as tools to address these issues. Aromatic and medicinal plants are rich in bioactive molecules and able to reach considerable concentrations in the final product, offering health benefits to consumers. In addition, they can modify rumen fermentation processes and microbiota populations, leading to lower methane production and N losses, with possible environmental and economical profits. In addition, alternative feedstuffs with diminished cultivation needs and environmental costs, compared to soybean meal and other raw materials which dominate ruminant diets, are being introduced worldwide. For example, lupin seeds and hemp cake, along with various by-products, could serve as ecofriendly feeds in dairy ruminants as well as in beef cattle. This Special Issue will focus on new developments in ruminant nutrition, reducing methane and N losses, and the enhancement of active biomolecules in milk and meat, which will lead to superior quality livestock products and minimize environmental impacts.

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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