

Special Issue

Impact of Amino Acids on Production Efficiency and Nitrogen Utilization of Dairy Cows

Message from the Guest Editor

This Special Issue highlights how precision amino acid nutrition enhances efficiency, sustainability, and productivity in dairy systems. By balancing amino acids with dietary energy, rather than relying on crude protein, we can improve nitrogen utilization, reduce environmental impact, and sustain milk yield and composition. We aim to compile research and reviews on metabolic mechanisms, modeling, and feeding strategies that optimize amino acid supply. Emphasis is on omics technologies, feed innovations, and on-farm applications for economic and environmental benefits. Collectively, this issue provides a comprehensive overview of amino acids' role in improving production and nitrogen partitioning in dairy cows. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Amino acid effects on production, health, and reproduction;
- Interactions with dietary energy sources;
- Enhancing nitrogen utilization efficiency.

We look forward to your contributions.

Guest Editor

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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.

Editor-in-Chief

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