

## Special Issue

# Ruminant Nutrition: How Feeding Strategies Shape Rumen Fermentation and Microbiome Diversity

### Message from the Guest Editor

We are dedicated to assembling cutting-edge research that meticulously dissects the interwoven connections among feeding strategies, rumen fermentation, and microbiome diversity in ruminants. Our scope is intentionally broad, encompassing a diverse array of topics, such as: The nuanced effects of distinct dietary components on the dynamic nature of rumen fermentation.

The ways in which feeding strategies sculpt the architecture and functionality of the rumen microbiome. The critical role of microbiome diversity in amplifying feed efficiency while mitigating environmental impacts. Innovative pathways toward optimizing nutrition to bolster animal health and performance.

We are especially eager to receive submissions that leverage state-of-the-art technologies, including metagenomics, metabolomics, and the real-time monitoring of rumen fermentation. Contributions that delve into the impacts of novel feed additives, the temporal dynamics of microbial communities, and the promise of precision nutrition are highly encouraged. We seek submissions that offer fresh perspectives on the intricate interplay between feeding strategies, rumen fermentation, and microbiome diversity.

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### Guest Editor

Dr. Qinghua Qiu

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### Deadline for manuscript submissions

30 October 2025



## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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### Editor-in-Chief

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