



Nutritional Modulation in Ruminants: Integrated Transcripts and Microbiome Analyses

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Message from the Guest Editors

Dear Colleagues,

Recently, the development of 'omics' technologies such as metagenomics, transcriptomics, proteomics, and metabolomics has opened up new avenues regarding our understanding of interactions between biological and molecular processes and animal nutrition. The different components of diet and metabolites, the lack or excess of nutrients, and the use of supplements can interfere with gene expression and cellular functions. In addition, animal nutrition is the principal factor in maintaining the balance of gut microbiota, which in turn influences the health of the gastrointestinal epithelium.

The aim of this Special Issue, entitled "Nutritional Modulation in Ruminants: Integrated Transcripts and Microbiome Analyses" is to collect studies concerning the relationship among ruminant nutrition, gene expression, and microbiome. Applications of new, high-throughput techniques based on the multi-omics approach combining metagenomics (amplicon-based metagenomic, shotgun metagenomics) and transcriptomics (microarrays, RNA seq) are welcome.





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Message from the Editor-in-Chief

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