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Advances in Nutritional Manipulation of Rumen Fermentation

Guest Editor:

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Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editor

Dear Colleagues,

The rumen fermentation process not only affects the utilization efficiency of ruminant feed, but is also a crucial factor affecting animal production efficiency. It is worth noting that aberrant rumen fermentation can cause rumen acidosis, rumen bloat, and other diseases, and even animal death in severe circumstances. Scientific and reasonable nutrition manipulation can improve feed utilization efficiency in ruminants by regulating rumen fermentation, lower the occurrence of rumen disorders, and reduce the cost and enhancing the efficiency of ruminant breeding.

In this Special Issue, we welcome original research and review papers that address the latest nutrition manipulation theories, methods, and technologies affecting rumen fermentation, including effects on the rumen microbial structure, improving the efficiency of rumen microbial synthesis and nutrient degradation, preventing rumen acidosis and bloating, promoting rumen tissue development and repair, and reducing rumen methane emission via nutrition manipulation methods. Other topics related to the nutritional manipulation of rumen fermentation are also welcome.

Dr. Lizhi Wang

Guest Editor



mdpi.com/si/182766

Special Issue



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Message from the Editor-in-Chief

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