

# Special Issue

## Rumen Microbiomes

### Message from the Guest Editor

Ruminants are dependent on the microbiota (bacteria, protozoa, archaea, and fungi) that inhabit the reticulorumen for the digestion of feedstuffs. Nearly 70% of energy and 50% of protein requirements for dairy cows are met by microbial fermentation in the rumen, emphasizing the need to characterize the role of microbes in feed breakdown and nutrient utilization. Therefore, knowledge of the microbial composition of the entire gut can provide insights into improving the overall health and productivity of the animal. We invite original research papers involving rumen microbial communities, their function, composition, and health implications as well as any factors influencing these communities. Additional topics include methane emissions from ruminants, antimicrobial resistance, and microbiome.

### Guest Editor

Dr. Nagaraju Indugu

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### Deadline for manuscript submissions

closed (15 January 2022)



## Animals

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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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### Editor-in-Chief

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