



## The Digestive Tract of Ruminants: Feed–Microbiome–Host Interactions

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (15 November 2021)**

### Message from the Guest Editor

Dear Colleagues,

Gut health is defined as the balance of homeostasis between host and microbiome, as well as the resistance to external and endogenous disturbances. Ruminants are defined by their mode of plant digestion and evolved forestomach, and therefore, most external disturbances are a result of diet composition or dietary change. The interactions of the feed–microbiome–host are also compartmentalized, and can vary in each unique region of the ruminant digestive tract based on environmental parameters. Even with the rapid advancement of omics methodologies and bioinformatics, there are critical gaps in knowledge for understanding the interactions within the digestive tract of ruminants.

We are seeking original research papers that evaluate the feed–microbiome–host interactions under a variety of conditions and locations, and look to identify cross-talk within the digestive tract. Moreover, topics may be related to feed composition changes, microbial dysbiosis, feed additives, and production-related diseases in ruminants.

Dr. Renée M. Petri

*Guest Editor*





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## Message from the Editor-in-Chief

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