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

Guest Editor:

Dr. Renée M. Petri
Agriculture and Agri-Food Canada, Sherbrooke, QC, Canada

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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Editor-in-Chief

Prof. Dr. Clive J. C. Phillips
Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, WA 6102, Australia

Message from the Editor-in-Chief

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Contact Us

Animals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/animals
animals@mdpi.com
𝕏@Animals_MDPI