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## Gut Microbiome-Associated Nutrition and Metabolism in Livestock Production

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Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

This Special Issue of *Metabolites* will publish reviews and original research articles covering the latest developments in nutrition and metabolism in livestock production (muscle, meat, milk, etc.). We are particularly interested in studies that strengthen our understanding of the molecular, microbiome and biochemical mechanisms of metabolic alterations and report on the development in nutrient treatment in livestock. In addition, new bioinformatic tools and data analysis concepts are welcome, such as feedomics, microbiome, metabolomics, and proteomics.

Potential topics include, but are not limited to, the following:

- Metabolic modulation of nutrients in the development and health of livestock production;
- Metabolic reprogramming of animal and gut health in response to nutritional metabolic disease;
- Cross-talk between nutrition, metabolism, gut microbiome and health;
- Microbial metabolism and microbial nutrition in the modulation of nutrients and managements;
- Identification and characterization of potential therapeutic targets of nutrients for stress or nutritional metabolic diseases of livestock.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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