

# Special Issue

## Gut Microbiome Composition in Livestock and Mice

### Message from the Guest Editors

The Special Issue aims to present recent research on any aspects of the gut microbiome in livestock (pigs, chickens, cows, sheep) and mice. Understanding the gut microbiome's natural composition and the factors that shape it is critical to advancing animal health and improving production efficiency. This topic is of great significance as it addresses not only the natural variations in microbiome composition but also the impacts of external interventions, such as feed additives and veterinary treatments, which are essential for developing sustainable agricultural practices and improving livestock health. Some of its focal points include, but are not limited to, the following:

- Natural variations in the gut microbiome composition of livestock and mice in the absence of external interventions.
- The effects of feed additives, veterinary drugs, and plant extracts on the gut microbiome and their implications for animal health.
- Comparative studies on the gut microbiome of different species, including pigs, chickens, cows, sheep, and mice.
- The relationship between gut microbiome composition and overall livestock performance, health, and immunity.

### Guest Editors

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### Deadline for manuscript submissions

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## Microorganisms

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## About the Journal

### Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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### Editor-in-Chief

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