

## Special Issue

# Interaction Between Dietary Components and Gut Microbiota: Their Effect on Human and Animal Health

### Message from the Guest Editors

The Gut Microbiota (GM) is a complex and dynamic ecosystem comprised of bacteria, viruses, fungi, and protozoa that colonize the gastrointestinal tract and interact with each other and with the host. Any disruption from the normal composition of the GM, known as “microbial dysbiosis”, is characterized by an imbalance in the microbial ecology's composition and/or function. Recently, much attention has been given to the dynamic relationship between GM and the health and performance of animals.

This Special Issue aims to present the recent research on any aspect of the impact of dietary components on GM and their interaction with human and animal health and disease. Relevant topics include, but are not limited to, the following:

- The effects of dietary components on the GM;
- The effects of a whole-food diet on the GM;
- The nutritional manipulation of human and animal health;
- The influence of dietary patterns on GM in health and disease;
- Omics approaches for understanding the effects of dietary components on GM.

### Guest Editors

Dr. Georgia Saxami

Dr. Dimitrios Arapoglou

Dr. Christos Eliopoulos

### Deadline for manuscript submissions

closed (31 January 2025)



## Life

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### Editor-in-Chief

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