Special Issue

Gut Bacterial Community: Competition and Mutualism

Message from the Guest Editor

Recent research has shed light on the dynamic interplay between competition and mutualism among gut bacteria, uncovering fascinating insights into their interactions and impact on host physiology. Cutting-edge studies have revealed how microbial competition for nutrients and niche space influences community structure, while mutualistic relationships contribute to host immune modulation and metabolic functions. Understanding the balance between competition and mutualism in the gut microbiome is essential for deciphering its role in maintaining health and preventing disease.

Subordinate Topics:

- Microbial Competition in the Gut: Exploration of mechanisms and implications of competitive interactions among gut bacteria.
- Mutualistic Relationships: Investigating symbiotic associations and their effects on host health and disease.
- Impact on Host Immunity: Examining how gut microbial interactions influence the host immune system.
- Metabolic Functions: Uncovering the contribution of microbial mutualism to host metabolism and energy balance.
- Therapeutic Implications: Discussing potential therapeutic strategies targeting gut bacterial competition and mutualism for health interventions.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2025)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/201102

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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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