Special Issue

Nutritional Regulation on Gut Microbiota

Message from the Guest Editor

Gut microbiome is a key homeostasis component for maintaining normal health and its imbalance is implicated in the development of a number of common chronic and inflammatory diseases. Foods are the most important regulators for gut microbiome. This Special Issue includes up-to-date research related to the impact of foods, nutrient supplementation, and dietary therapy on gut microbiota in animal models, healthy subjects, or patients with chronic or inflammatory diseases from around the world. Research outcomes will help readers to understand the roles of nutritional intake on regulation of gut microbiota and health of hosts, and encourage the use of nutritional prebiotic foods to prevent and manage relevant health disorders.

Keywords:
- Foods
- nutrients
- gut micorbiome
- prebiotics
- animals
- humans
- diabetes
- obesity
- inflammation
- digesition
- metabolism
- short chain fatty acids
- glucose metabolism

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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