

Special Issue

Gut Microbiota and Human Health: From Mechanisms to Therapeutic Frontiers

Message from the Guest Editor

In recent years, advances in microbiome research have fundamentally reshaped our understanding of the gut microbiota as a central regulator of health and disease. Gut microbial composition and function are increasingly recognized as key determinants of host immunity, metabolism, neurological function, and cancer susceptibility. Despite rapid progress, the field still faces critical gaps in mechanistic insight, biomarker discovery, and clinical translation. The forthcoming Special Issue aims to provide a forward-looking platform for cutting-edge research and comprehensive reviews on the role of gut microbiota across health and disease. We seek contributions that move beyond descriptive studies to mechanistic, functional, and translational insights. We also encourage interdisciplinary work that integrates microbiology, immunology, oncology, nutrition, computational biology, and clinical sciences.

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.

Editor-in-Chief

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