

Special Issue

Advances in Gut Microbial Genomics and Metabolomics in Human Health

Message from the Guest Editors

This Special Issue will explore the latest advancements in gut microbial genomics and metabolomics. The human microbiome is integral to various physiological processes, including digestion, metabolism, and immune function, with disruptions linked to diseases such as obesity, diabetes, cardiovascular disorders, and neurological conditions. Recent innovations in genomics and metabolomics have deepened our understanding of microbial diversity and the metabolites that microbes produce. We welcome contributions that address the molecular mechanisms behind gut microbiome dysbiosis, the role of microbial metabolites in metabolic and immune regulation, and how these insights can lead to new therapeutic approaches for chronic diseases. Studies investigating the effects of diet, lifestyle, and environmental factors on microbiome composition, as well as the potential of microbiome-based therapies, are also encouraged. This Special Issue will provide a comprehensive platform for the latest research on microbial genomics and metabolomics, advancing our understanding of the microbiome's role in human health and disease prevention.

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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