Special Issue

Advances in Gut Microbiome Metabolomics

Message from the Guest Editors

The gut microbiome, a complex ecosystem of microorganisms residing in the human gastrointestinal tract, plays a crucial role in This Special Issue explores the latest developments in gut microbiome metabolomics, highlighting novel methodologies, analytical techniques, and bioinformatics approaches that have enabled deeper insights into microbial metabolism and its impact on human health. Key areas of focus include the identification of microbial-derived metabolites, their biochemical pathways, and their interactions with host systems. The integration of multi-omics data, advanced mass spectrometry, and nuclear magnetic resonance (NMR) technologies has facilitated the characterization of complex metabolite profiles, uncovering previously unknown links between the gut microbiome and various diseases, such as metabolic disorders, cancer, and neurodegenerative conditions. Additionally, this issue addresses the challenges of standardizing metabolomic analyses and the potential of personalized medicine approaches based on individual microbiome signatures.

Guest Editors

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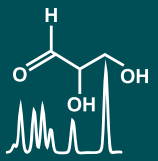

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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