Special Issue

Gut Microbiome and Host Metabolism

Message from the Guest Editors

Disruptions in gut microbiome and host metabolism, play pivotal roles in the development of metabolic disorders such as obesity, diabetes, and related conditions. Understanding these co-metabolic processes at both the community and molecular levels is essential for devising effective preventive and therapeutic strategies to improve metabolic health. Recent advances in metagenomics, metabolomics, and (meta)transcriptomics, are significantly accelerating our ability to unravel these complex interactions across different axes and compartments. These innovations are shedding new light on metabolic regulation, disease mechanisms, and precision interventions. This Special Issue of *Metabolites,* entitled "Gut Microbiome and Host Metabolism", invites submissions that explore the profound impact of the host–microbiome co-metabolism of carbohydrates, lipids, and amino acids on the onset and prevention of metabolic diseases. We welcome novel insights derived from clinical studies, animal models, and in vitro studies, particularly those employing multi-omics approaches or developing novel methodology to unravel these complex interactions.

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2025)

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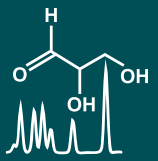

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About the Journal

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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