Special Issue

Microbial Regulation of Host Metabolism

Message from the Guest Editor

We welcome studies leveraging host–microbe interactions, bioinformatics to elucidate microbial diversity, and functional mechanisms at the molecular level. Topics include, but are not limited to, the following:

- Short-chain fatty acid (SCFA) metabolite production and microbial regulation mechanisms;
- Targeted metabolomics of metabolites of natural products, including probiotics and natural products;
- Microbial bile acid metabolism and host signaling pathways such as the FXR;
- Host energy metabolism through the production of essential vitamins, branched-chain amino acids, and indole propionate by microbes;
- Metabolic regulation of gut hormone secretion (GLP-1, PYY, GIP, 5-HT, etc.) by microbial metabolites.

This Special Issue will focus on recent research that reports the relevance of biomolecular regulatory mechanisms through various factors of host–microbiota interactions. Through the contributions of original research papers and review articles, researchers are able to understand these molecular mechanisms and offer promising future strategies for treating diseases caused by dysbiosis.

Guest Editor

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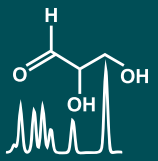

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).