

Special Issue

Targeting Gut Microbiome with Functional Foods: Novel Interventions for Glucose and Lipid Metabolism Disorders

Message from the Guest Editors

The gut microbiome plays a critical role in the regulation of host glucose and lipid metabolism, and its dysregulation is closely associated with the development of various metabolic diseases, including type 2 diabetes, hyperglycemia, hyperlipidemia, obesity, and non-alcoholic fatty liver disease. This Special Issue aims to gather high-quality research and reviews on the use of microbiome-modulating functional foods to prevent and ameliorate metabolism-related pathologies. We welcome contributions that explore the efficacy and mechanisms of probiotics, postbiotics, and bioactive compounds in reshaping gut microbial communities and improving metabolic outcomes. Studies focusing on molecular pathways linking gut microbiota to glucose homeostasis, lipid profiling, insulin sensitivity, and energy balance are especially encouraged. Multi-omics approaches and mechanistic validations that provide deeper insights into diet-microbiota-metabolism interactions will be given high priority.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

Editor-in-Chief

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