

## Special Issue

# Interactions Between Food Compounds and Gut Microbiota

### Message from the Guest Editor

The gut microbiota consists of trillions of microbes that impact the physiology of multiple host tissues. Food compounds are supposed to come into contact with gut microbiota, profoundly shaping its formation and dynamics, thereby exerting their health-modulatory effect. It remains a major challenging task to understand the precise relationship between food compounds, their metabolites, natural substances with benefits, and the overall architecture of gut microbiota. It is crucial to consider the interplay between food compounds and gut microbiota within the context of host physiology, particularly in the presence of various forms of diseases. The aim of this Special Issue of *Foods* is to gather and display cutting-edge research on the relationship between food compounds (including natural compounds with health effects) and gut microbiota. This Special Issue welcomes original research articles and reviews on studies that illustrate the microbial changes in response to food digestion, elucidate the roles of microbiota in physiological outcomes, and investigate the associated mechanisms. Clear and concisely written manuscripts are highly desirable and appreciated.

### Guest Editor

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### Deadline for manuscript submissions

15 October 2025



## Foods

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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.

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### Editor-in-Chief

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