

## Special Issue

# Effect of Dietary Components on Gut Homeostasis and Microbiota

### Message from the Guest Editors

The interplay between diet and gut health has garnered considerable attention in recent years. Emerging research highlights the pivotal role of dietary components in shaping gut homeostasis and influencing the composition and function of the gut microbiota. This Special Issue aims to explore the relationship between dietary factors and gut health, shedding light on their impact on microbiota composition, host–microbe interactions and overall well-being. This Special Issue seeks to encompass a broad range of topics related to the effect of dietary components on gut homeostasis and microbiota, including, but not limited to, the following: (1) Nutritional Modulation of Gut Microbiota. (2) Mechanisms of Dietary Influence. (3) Impact on Gut Barrier Function. (4) Dietary Interventions in Gut Disorders. (5) Gut–Brain Axis and Dietary Influence. (6) Role of Diet in Microbial Dysbiosis.

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### Guest Editors

Dr. Zhengyuan Zhai  
Prof. Dr. Huaxi Yi  
Dr. Xu Yang

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### Deadline for manuscript submissions

closed (25 February 2026)



## Nutrients

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## About the Journal

### Message from the Editorial Board

*Nutrients* is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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### Editors-in-Chief

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