

## Special Issue

# Effects of Diet–Microbiome Interactions on Chronic Diseases

### Message from the Guest Editors

The gut microbiome plays a fundamental role in the development of many chronic diseases ranging from metabolic diseases to cardiovascular diseases and cancers. Diet is the key determinant of the gut microbiota configuration, through a potential modulation of the abundance of specific species and their individual or collective functions. Dietary–microbiome interactions may have affected the development and progression of the above-mentioned chronic diseases. Though accumulating evidence has suggested that gut microbiota and microbial metabolites intermediate various health effects of diet on the host, high-quality cohort study and intervention studies are currently scarce and potential mechanisms are not well elucidated. Based on this context, current data from population-based, animal, and in vitro studies, have evidenced the effects of diet–microbiome interactions on chronic diseases and elucidated the mechanisms of action involved in the effects on the host's health, which would contribute to the prevention and treatment of chronic diseases through dietary intervention mediated by gut microbiota.

### Guest Editors

Dr. Yong Xue

Dr. Bo Yang

Dr. Hongyan Li

Dr. Bo Yang

### Deadline for manuscript submissions

closed (5 October 2023)



## Nutrients

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*Nutrients*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)

[mdpi.com/journal/  
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### 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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Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (UIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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