



## Effects of Diet–Microbiome Interactions on Chronic Diseases

Guest Editors:

**Dr. Yong Xue**

**Dr. Bo Yang**

**Dr. Hongyan Li**

**Prof. Dr. Bo Yang**

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### Message from the Guest Editors

Dear Colleagues,

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.





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## Editors-in-Chief

### **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 (IUIBS), 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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*Nutrients* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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