# **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**

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# Deadline for manuscript submissions

closed (5 October 2023)



# **Nutrients**

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Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed



mdpi.com/si/147470

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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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