

## Special Issue

# Diet-Microbiota Impacts on Health

### Message from the Guest Editor

Nutrition and diet affect health through their effects on the gut microbiota and host immune homeostasis. The microbiota has a crucial role within its host and regulates many functions of host physiology including immunity, digestion, nutrient metabolism, and has recently been shown to have a role in the development of diseases, especially intestinal barrier function. The link between the gut microbiota and intestinal inflammation is demonstrated by changes in the metabolites produced by the gut microbiota, as well as intestinal barrier disturbances. Extrinsic factors, such as environmental stressors, exposure to antibiotics, sleep disruption, physical exercise, and psychological stress, may also have a significant impact on the gut microbiota composition. Probiotics, an assortment of favorable intestinal microorganisms, are frequently utilized to treat a wide range of conditions, such as inflammatory bowel disease, rheumatism, aging, inflammation, cancer, obesity, hypertension, and diabetes. This Special Issue's goal is to examine how diet, the microbiota and immunity are related, as well as the potential for modern diagnostic, preventive, and therapeutic approaches.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 March 2025)



## Biology

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