



Nutrition–Microbiome Interaction in Healthy Metabolism

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Message from the Guest Editors

Dear Colleagues,

The intricate interactions between host nutrition and the gut microbiota play an essential role in regulating host metabolism. The gut microbiota depends on the host intake of nutrients for their own survival. In turn, many gut microbes directly participate in the digestive process, producing various nutrients/metabolites involved in the host metabolism and biology process. Gut-microbiome-based precision nutrition offers promising advancements in the control and treatment of disease at the individual level.

This Special Issue aims to present cutting-edge research on nutrition–microbiome interaction in human metabolism. We encourage submissions from microbiome-based nutritional studies, including epidemiological and animal research, that have identified key microbes and microbial metabolites as potential targets for dietary interventions to support and maintain a healthy human metabolism. Potential topics include, but are not limited to, the following:

- Impacts of diet/nutrition on the gut microbiome and human metabolism;
- Effects of diet–microbiome interactions on human metabolism;
- Gut-microbiome-based precision nutrition.





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