

Special Issue

Dietary Patterns and Gut Microbiota

Message from the Guest Editors

Gut microbiota is critically involved in maintaining the integrity of the gastrointestinal tract, the gut mucosal homeostasis, and host nutritional metabolism. The specific signatures of intestinal microbiome and alterations are likely to play an important (but still underestimated) role in determining susceptibility and resilience to disease outcomes locally and systemically. The human and animal gut microbiomes are shaped by diet and host factors, in which different dietary patterns acutely and persistently perturb microbial communities. It is important to understand the complex interactions between microbiota and host immunity, including which and how gut microbiota metabolizes these dietary elements, and the molecular links and underlying mechanisms of how diet-reshaped gut microbes and their metabolites modulate host immunity systems, physiological metabolism, and health. In this Special Issue, we will pay attention to how those elements from different dietary patterns that modulate gut microbiota, and how specific gut microbes and their metabolites work to be involved in the development of chronic diseases, inflammatory bowel disease, etc.

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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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