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Nutrition and Microbiome

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Message from the Guest Editor

Recent research documented that the human gut microbial distribution plays a role in diabetes, metabolic syndrome, and obesity. Dysbiosis, or derangements in the microbiota composition, has been associated with altered energy homeostasis, fermentation pathways, and metabolic dysregulation. Furthermore, recent advances in genomics and metabolomics have enabled the identification of several microbiota species and shed new light on microbe research. These advances link the diet, nutrient composition, and gut microbiome interactions. As such, the altered microbiome-host interactions may play a role in inflammation, insulin resistance, cardiometabolic risk, and diabetes.

In this Special Issue, we would like to address the microbiome, gut microbiota-host interaction, microbiome genomics, microbiome health, prebiotics, and probiotics, and their impact on diabetes, metabolic diseases, and obesity.



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Special *Issue*



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