

Special Issue

Diet–Microbiota Interactions in Human Health and Disease

Message from the Guest Editors

Gut microbiota can be readily reprogrammed by various food components and potentially impact human physiology by participating in digestion, the absorption of nutrients, shaping of the mucosal immune response and the synthesis or modulation of a plethora of potentially bioactive compounds. Therefore, reshaping host–microbiota interactions through personalized nutrition to control/prevent disease control is an area of increasing interest. However, major limitations in ‘big-data’ processing and analysis still limit our interpretive and translational capabilities concerning these person-specific host, microbiome and diet interactions. Therefore, we welcome research articles, reviews or short communications based on, but not limited to, the following themes: 1) How food component, food additive, food supplement and food processing approach impact composition and function in gut microbiota; 2) how dietary–microbiome crosstalk affect disease development and progression; 3) How gut microbiota metabolize food components and generate metabolites to impact human health; 4) How bioactive dietary compounds treat or prevent disease by modulating gut microbiota.

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