



New Insights into Gut Microbiota and Obesity

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Message from the Guest Editor

Dear Colleagues,

The role of the gut microbiota in health seems to be important and multifaceted. The human gut microbiota begins in utero and continues to be shaped throughout life under the influence of various factors, such as diet, drugs administration and the aging process. On the other hand, obesity and obesity-related disorders pose a major public health issue world widely. In this Special Issue, we will focus upon the interplay of diet, nutritional aspects and various metabolic biomarkers, which are produced by the gut microbiota in response to dietary factors. The scope of this Issue will be to emphasize the importance of healthier diets with regard to the gut microbiome as a venue to combat obesity and obesity-related disorders. The purpose will be to point out the significance and beneficial efficacy of probiotics, prebiotics, synbiotics and postbiotics as well as the potential of next-generation probiotics in this context. In addition, the difficulties in research for possible next-generation probiotics together with the diagnostic difficulties regarding the composition of the gut microbiota in the multi-omics era will be elucidated in this Special Issue.





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Editor-in-Chief

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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