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The Interplay of Gut Dysbiosis with Metabolic Syndrome

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editor

Dear Colleagues,

Dysbiosis of the gut microbiota plays a crucial role in the pathogenesis of metabolic syndrome. Dysbiosis causes a cluster of interrelated physiological, biochemical, clinical, and metabolic risk factors that are associated with an increased likelihood of developing cardiovascular disease and type 2 diabetes. The main characteristics of metabolic syndrome are elevated blood pressure, dyslipidemia (defined as increased triglycerides and reduced high-density lipoprotein cholesterol), elevated fasting glucose, and central obesity. Manipulation of gut microbiota through the administration of prebiotics or probiotics could reduce intestinal low-grade inflammation and improve gut barrier integrity, thereby improving metabolic balance and promoting weight loss. However, additional evidence is required to fully comprehend their clinical impact and the therapeutic application of dysbiosis and its link with metabolic syndrome.

We invite researchers working on the effects of gut dysbiosis on metabolic syndrome to submit original research articles or review papers for this Special Issue in order to advance our understanding of this complicated and intriguing topic.

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Message from the Editor-in-Chief

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