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Natural Metabolites on Gut Microbiome Modulation

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Message from the Guest Editor

Gut microbiome plays a major role in the maintenance of human health, while gut microbiome deviations are involved in the progress and development of human diseases. Natural metabolites, including primary and secondary metabolites from plants, fungi and bacteria, are important resources for developing gut microbiome modulators. Although some natural metabolites have demonstrated potential roles in gut microbiome modulation, more studies are needed to distinguish novel natural metabolites and explore how they improve human health and combat human diseases via modulating gut microbiome. This Special Issue engages with, but is not limited to the following topics:

- Studying the structures and roles of natural metabolites on gut microbiome;
- New techniques on developing novel natural metabolites as gut microbiome modulators;
- Optimization of known natural metabolites as gut microbiome modulators;
- Roles of natural metabolites on human health and diseases through modulating gut microbiome;
- Mechanisms linking natural metabolites and gut microbiome as well as human health conditions.



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Special Issue



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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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