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Gut Microbial Metabolism and Biotransformation

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Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editors

In the last decade, it has become evident that microbes play a crucial role in human and animal metabolism. Our understanding of the host–microbiome relationship has expanded thanks to the advances in metabolomics and genomics. With the help of multi-omics approaches, various connections between molecules and microorganisms have been revealed, including the microbial-mediated biotransformations of molecules. In this Special Issue of *Metabolites*, our aim is to bring together recent findings in topics including, but not restricted to: new metabolite discovery through gut microbial-mediated modifications, gut microorganisms producing/modifying chemicals present in the gut, known molecule-new metabolite approaches, the discovery of enzyme-specific transformations, and the discovery of functional roles of metabolites in the gut environment. Computational approaches to microbial metabolism and biotransformation in the gut environment are also encouraged.

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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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