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Emerging Applications of Urinary Metabolomics in Cancer

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Message from the Guest Editor

Dear Colleagues,

The rapid emergence of urinary metabolomics as a powerful platform for biomarker discovery shows transformative potential to revolutionize the study of cancer metabolism, early detection, and therapeutic response monitoring, among other applications. The clinical value of urinary metabolites rests in the relative ease of their noninvasive collection and analysis, providing seamless integration with existing clinical laboratory workflows. However, significant challenges relating to the variability in urinary metabolites in response to various internal and external factors continue to complicate their development as novel cancer biomarkers.

This Special Issue aims to highlight novel applications of urinary metabolomics to the study of cancer metabolism, including metabolomics profiling, metabolic pathway identification, biomarker discovery and validation, therapeutic response prediction, etc., as well as advances to overcome technical barriers in the field. In this way, this Special Issue seeks to provide an overview of the latest advances in the application of urinary metabolomics to improve our understanding of cancer and its clinical detection and treatment.

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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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