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MS-Based Metabolomic and Lipidomic Profiling in Urinary Tract Cancers

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Message from the Guest Editors

The development of mass spectrometry and combined techniques has allowed researchers to detect biological molecules and broaden our knowledge on the changes that take place in the cells of living organisms. Metabolites and lipids are important cellular components, and the recognition of changes in their composition can provide important information related to cellular homeostasis and disease pathogenesis. Cancer is a disease that alters cellular metabolism, so the metabolomic and lipidomic profiling of tissues and biofluids seems to be the right approach to discovering new biomarkers. Urinary tract cancers are among the most common cases and account for over 12% of all cancers. For some of these cancers, there are still no biomarkers with adequate sensitivity and specificity. Therefore, the profiling of changes in metabolites and lipids in order to search for differences, e.g., diagnostic and prognostic biomarkers of urinary tract cancers, remains an important challenge. In this Special Issue, we will discuss the latest information on the use of mass spectrometry methods for the metabolomics and lipidomics profiling of tissues and body fluids of patients with urological cancers.

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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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