



Novel Approaches for Metabolomics in Drugs and Biomarkers Discovery

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Message from the Guest Editor

Metabolomics, by providing a direct vision of the functional metabolic outcome of a given biological system, can enable the discovery of diverse sub-classes of pathophysiological states. This potentiates the discovery of new drug targets and biomarkers, enabling a more precise disease diagnosis and prognosis. The holistic molecular signature captured by metabolomics can also be used to evaluate the effect of drugs and, consequently, to monitor and optimize drug therapies. All of this will contribute towards a more precise and efficient use of medicine.

This Special Issue focuses on new approaches in metabolomics enabling the classification of the biological system towards the discovery of drug and disease biomarkers. The topics covered by this Special Issue will include (not exclusively) advances on:

1. New methodologies to capture the physiological state of the system.
2. Metabolome perturbation according to pathophysiological states.
3. Metabolome perturbation due to drugs, and other environmental variables.





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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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