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Metabolomics of Complex Traits

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closed (31 March 2019)

Message from the Guest Editor

Dear Colleagues,

Metabolites represent both the downstream output of the genome and the upstream input from the environment, and are directly linked to the cellular function and phenotypes. The study of metabolites not only enables the identification of disease biomarkers but also provides unique insights into the fundamental causes of disease. Recent advances in metabolomics technologies results in a growing number of applications in biomedical research of complex traits, and such applications have already identified a number of unexpected chemical causes or metabolic pathways for several important complex diseases including atherosclerosis, diabetes, cancer, and osteoarthritis. In this Special issue, we seek both review articles and original research with a focus on studies of metabolomics in complex diseases and traits, which will provide all readers with an overview of the application of metabolomics in complex disease and summarize the most recent new knowledge and advances in the field.

- Metabolomics (MS-based and NMR-based)
- Targeted and Untargeted Metabolomics
- Biomarker Discovery
- Complex Diseases and Traits
- Pharmacometabolomics
- Precision Medicine

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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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