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Metabolomics-Driven Drug Discovery and Evaluation

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Deadline for manuscript submissions:
closed (10 July 2023)

Message from the Guest Editors

Dear Colleagues,

Over the past few decades, metabolomics have evolved from a pure exploratory tool to a more mature quantitative biochemical technology. Metabolomics has now become an accepted and widely applied approach in drug development and evaluation. Functional metabolomics can help to find targets for drug development, suggest the mechanism of drug action, and indicate binding partners of compounds. Pharmacometabolomics play a crucial role in therapeutic drug monitoring (TDM) and clinical individualized drug therapy. Meanwhile, biologically active metabolites are a valuable resource for the development of drug candidates.

This Special Issue seeks novel research contributions in, but not limited to, the following areas:

- Targets discovery for drug development;
- Mechanism of drug action;
- Metabolomics “Big Data” driven strategy for drug discovery;
- Drug individual response;
- The function of biologically active metabolites;
- Drug repurposing;
- Pharmaceutical applications of metabolomics.

We welcome and look forward to your submissions.

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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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