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Advances in the Study of Lipids and Lipid Metabolism Based on Lipidomics

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Message from the Guest Editors

Lipidomics is the study of lipids and their interactions with other molecules in a biological system. It has become an important field of research in recent years, particularly in the study of lipid metabolism and the role it plays in various physiological and pathological processes. Some of the recent advances in the study of lipid metabolism based on lipidomics include:

- identification of new lipid species,
- characterization of lipid pathways,
- identification of lipid biomarkers,
- development of lipid-lowering drugs,
- study of lipid–protein interactions.

Advances in mass spectrometry and other analytical techniques have enabled lipidomics researchers to analyze large numbers of lipid species simultaneously, with results displaying high sensitivity and accuracy. This has allowed for the detection of minor changes in lipid levels that might have been missed using traditional methods. However, there are still many questions and topics related to lipids and their metabolism that need clarification and elucidation. Therefore, this Special Issue was launched in order to collect advances in research of lipids and lipid metabolism based on lipidomics.



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Special Issue



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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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