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Metabolomics in Pulmonary Diseases

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Message from the Guest Editors

Dear Colleagues,

Metabolomics, the comprehensive analysis of small molecules in biological samples, has emerged as a powerful tool in the field of pulmonary medicine such as COPD, asthma, pulmonary fibrosis, Sarcoidosis, lung cancer, and viral and bacterial pneumonia. One of the key rationales for utilizing metabolomics in pulmonary diseases is the ability to capture the dynamic metabolic changes occurring in the lungs and systemic circulation. By analyzing the global metabolic profile, metabolomics can provide a snapshot of the metabolite alterations associated with pulmonary diseases that can unravel dysregulated metabolic pathways in different lung conditions. This holistic approach allows for the identification of novel biomarkers for early diagnosis, disease classification, and insights into the molecular processes driving disease progression and may hold great promise for minimizing side effects, and enhancing patient care in pulmonary disease. The Special Issue welcomes original articles, reviews, and perspectives that contribute to understanding metabolic alterations, diagnostics and prognostics biomarker discovery and stratification of diseases.



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Special Issue



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Editor-in-Chief

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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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