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The Multifaceted Roles of Biomarkers in Metabolic Disorders: From Diagnosis and Monitoring to Prediction, Management, and Treatment

Guest Editors:

Dr. Prince Dadson

1. Turku PET Centre, University of Turku, Turku, Finland
2. Department of Clinical Medicine, University of Turku, Turku, Finland

Dr. Miikka-Juhani Honka

Turku PET Centre, University of Turku, Turku, Finland

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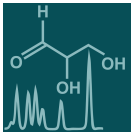
Message from the Guest Editors

Dear Colleagues,

The increasing prevalence of metabolic disorders highlights the pressing need for innovative approaches to diagnosis, treatment, and prevention. The identification of functional biomarkers is crucial, as they can serve as early indicators of pathological dysfunction and damage, even before the onset of disease. Additionally, investigating the metabolic disturbances caused by drugs, nutrients, and environmental factors can elucidate the underlying biochemical pathways involved in these disorders and their complications. By developing novel analytical methods for biomarker analysis, we can gain valuable insights into tissue-specific metabolic disruptions, which could completely transform our understanding of the pathophysiology of metabolic disorders. Furthermore, studying biomarkers that predict treatment responses and integrating multi-biomarker data offer avenues for the implementation of personalized medicine strategies, ultimately leading to enhanced clinical outcomes. This comprehensive approach holds the potential to transform diagnostics, patient risk assessment, and therapeutic interventions for metabolic disorders.



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Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

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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Contact Us

Metabolites Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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