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Metabolomics in Clinical Research

Guest Editors:

Dr. Martin Giera

Center for Proteomics and
Metabolomics, Leiden University
Medical Center, 2333 ZA Leiden,
The Netherlands

Dr. Julijana Ivanišević

Metabolomics Platform, Faculty
of Biology and Medicine,
University of Lausanne, Rue du
Bugnon 19, 1005 Lausanne,
Switzerland

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Message from the Guest Editors

Dear Colleagues,

Metabolomics applied to clinical research is focused on patho-physiological processes and has allowed us to better understand disease-related molecular mechanisms and spurred great hope to find new diagnostic means and treatment possibilities. Although only a handful of clinically relevant biomarkers have been discovered, interest in metabolomics and its application to clinical research and routine is still increasing. While most metabolomics studies have focused on biomarker identification, the field at present is heading towards a better systems-wide understanding of disease-relevant processes and the identification of causative rather than descriptive relationships between phenotype and metabolome. Nevertheless, this development warrants novel and improved concepts and technologies. In this Special Issue, we will focus on recent developments and applications in clinical metabolomics. We also wish to shed light on bioactive endogenous metabolites and their role in health and in disease, to modulate the pathophysiological processes and the disease phenotype.

Dr. Martin Giera

Dr. Julijana Ivanišević

Guest Editors



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Special Issue



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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, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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metabolites@mdpi.com
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