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The Molecular Application of Mass Spectrometry in Health and Disease

Guest Editors:

Prof. Dr. Uta Ceglarek

Institute for Laboratory Medicine,
University of Leipzig Medical
Center, 04103 Leipzig, Germany

Prof. Dr. Albert Sickmann

Leibniz-Institut für Analytische
Wissenschaften – ISAS – e.V.,
44139 Dortmund, Germany

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Message from the Guest Editors

Dear Colleagues,

Mass spectrometry has become a key technology for the analysis of biomarkers in body fluids and tissues. There has been an exponential growth in clinical chemistry, pharmacology, and toxicology applications. MS-based proteomics and metabolomics applications help us to understand complex metabolic processes and to identify biomarkers and potential therapeutic targets. Recently developed spatial and single-cell mass spectrometric approaches are currently opening up new possibilities for understanding biological processes in disease and health. In epidemiological and clinical studies, mass spectrometric metabolomics and proteomics applications offer excellent opportunities for better phenotyping. Mass spectrometry entered the clinical laboratory in the fields of toxicology, drug monitoring, microbiology, and metabolism.

This Special Issue aims to collect technical and application developments in the field of mass spectrometry from single cells to high-throughput routine applications. Perspectives in medicine directing to clinical medicine by mass spectrometry-based metabolomics and proteomic approaches will be addressed.

Prof. Dr. Uta Ceglarek

Guest Editor



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Special Issue



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Denmark

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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