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Untargeted Profiling of Environmental Chemicals and Their Transformation Metabolites by Mass Spectrometry

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Environmental chemicals encompass volatile organic compounds, persistent organic pollutants, pharmaceuticals, and other xenobiotics and chemical elements. Studies have reported strong links between exposure to pollutants and adverse health outcomes such as cancer, cardiovascular disease, and respiratory illness. However, the comprehensive characterization of these chemicals and their transformation metabolites/products in the environment, and in exposed individuals, is limited and challenging. With superior sensitivity, specificity, and capability to analyze small molecules, mass spectrometry methods are widely used in metabolomics and exposomics research.

This Special Issue aims to highlight innovative original research on topics including (but not limited to) studies on the untargeted mass spectrometric profiling of environmental chemicals and/or their metabolites in (i) environmental media, (ii) human biological samples (urine, blood, tissue, etc.), and (iii) in vitro or in vivo experiments. The presented results will contribute to enriching the knowledge on environmental metabolomics and facilitate exposure assessment and health risk prevention.

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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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