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Recent Advances in Volatile Organic Compound Analysis as Diagnostic Biomarkers

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Message from the Guest Editors

Dear Colleagues,

Volatile organic compounds (VOCs) are a diverse group of carbon-based molecules which are volatile at ambient temperatures and are emitted by an organism as a result of metabolic processes of cells and associated microbiome. The qualitative and quantitative profile of VOCs in biological fluids can vary depending on the physiological changes. Therefore, the pattern of volatile metabolites may reflect the presence of several diseases. This has been intensively investigated in the last few decades, resulting in an increasing number of studies focused on new volatile biomarker discovery.

This Special Issue aims to summarize the recent findings related to VOCs detected in various biological fluids such as breath, blood, urine, feces, as well as bacterial and cell cultures for biomedical applications. The Special Issue will be covering various topics, including but not limited to biomedical/medical application of VOC analysis, biomarker discovery, and novel approaches for sampling and analyzing VOCs.













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Message from the Editor-in-Chief

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