

## Special Issue

# Recent Advances in Non-Invasive Diagnosis Based on Volatile Metabolites

### Message from the Guest Editor

Metabolites are the products of biochemical reactions within living cells, carrying essential chemical information about cellular processes. Analyzing metabolites in biofluids reveals not only the body's internal chemistry but also its overall health status. This approach has great potential for developing minimally invasive or non-invasive diagnostic methods, especially in early disease stages, if a reliable technique for metabolite detection is established. Volatile metabolite-based breath analysis is particularly appealing since exhaled breath samples can be collected via completely non-invasive processes. Significant advancements have been made in breath-based diagnostics in recent years. This Special Issue of *Life* will highlight ongoing technological and diagnostic developments based on volatile metabolites. We invite you and your colleagues to submit original research articles, reviews, and brief reports focused on volatile metabolite-based diagnostics. While this Special Issue emphasizes breath analysis, we also welcome manuscripts on headspace analysis from various body fluids.

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### Guest Editor

Dr. Kiran Sankar Maiti  
Department of Chemistry, Technical University, Munich, Germany

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### Deadline for manuscript submissions

closed (30 March 2026)



## Life

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### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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### Editor-in-Chief

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