

## 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.

### Guest Editor

Dr. Kiran Sankar Maiti

Department of Chemistry, Technical University, Munich, Germany

### Deadline for manuscript submissions

30 March 2026



## Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/218108](https://mdpi.com/si/218108)

*Life*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[life@mdpi.com](mailto:life@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[life](https://mdpi.com/journal/life)





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/journal/  
life](https://mdpi.com/journal/life)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona  
Institute of Science and Technology, 08028 Barcelona, Spain

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)