

Special Issue

State-of-the-Art NMR-Based Metabolomics and Its Applications

Message from the Guest Editor

This Special Issue aims to showcase cutting-edge developments in NMR-based metabolomics, highlighting both methodological innovations and impactful applications. The scope encompasses a wide range of topics, such as the following:

- Novel NMR methodologies and instrumentation;
- Computational and AI tools for NMR spectral analysis and metabolite identification;
- Applications in clinical diagnostics, pharmacology and drug metabolism, cell metabolism, lipid metabolism, nutrition metabolism, plant metabolism, food metabolomics, animal metabolism, ecological metabolomics;
- Standardization, validation, and reproducibility in NMR metabolomics studies.

The purpose of this Special Issue is to provide a platform for researchers to share transformative insights and practical advances that enhance the utility of NMR in metabolomics. By bringing together contributions from diverse scientific disciplines, this Special Issue aims to foster interdisciplinary dialogue and stimulate innovative research directions in the field. We invite original research articles, reviews, and technical notes that reflect the dynamic evolution of NMR-based metabolomics and its expanding role in solving real-world challenges.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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