

Special Issue

Recent Analytical Technologies and Applications in Metabolomics

Message from the Guest Editor

Metabolomics is devoted to the systematic study of all small molecule metabolites in biological samples derived from different sources. Given NMR and MS have respective strengths and weaknesses, they are often also combined in metabolome analysis for their mutually complimentary benefits in both analyzing and identifying small molecule metabolites. In recent years, the advance of analytical technologies in metabolomics has enabled the discovery of more and more biomarkers in various diseases, making the early detection of diseases and designing personalized treatments a reality. As an emerging research technique, metabolomics still faces the tremendous challenges of methods and applications. This Special Issue will welcome original research and review articles covering sample preparation (sample extraction, metabolite pretreatment and separation), instrumental analysis (new techniques in NMR, LC-MS, GC-MS, and MS imaging), data analysis (data preprocessing, data extraction, quantitative analysis, pattern recognition, and multi-omics integrated analysis), metabolic pathway analysis, and various applications in different fields.

Guest Editor

Dr. Fuhua Hao

Innovation Academy for Precision Measurement Science and Technology, Chinese Academic of Sciences, Wuhan 430071, China

Deadline for manuscript submissions

closed (30 April 2023)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/130428

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).