

Special Issue

Molecular Advances in Metabolic Dysfunction-Associated Steatotic Liver Disease

Message from the Guest Editors

Metabolic dysfunction-associated steatotic liver disease (MASLD) is the leading cause of chronic liver disease worldwide and contributes to extrahepatic complications like cardiovascular disease and hepatocellular carcinoma. Despite progress in epidemiology and clinical stratification, significant gaps remain in understanding the mechanisms and molecular targeting of MASLD. This Special Issue aims to highlight innovative research on the molecular drivers of MASLD, including hepatocellular lipotoxicity, insulin resistance, mitochondrial dysfunction, gut–liver axis signaling, and inflammation. We welcome original research and reviews on basic, translational, and early-stage clinical studies. Submissions using molecular approaches in preclinical models, patient biospecimens, or integrated omics platforms are encouraged. The Special Issue will also focus on studies translating molecular findings into diagnostic biomarkers, therapeutic targets, and risk stratification tools to advance early detection, personalized management, and prevention of MASLD and its complications. Prof. Rifaat Safadi

Guest Editors

Prof. Dr. Rifaat Safadi

The Liver Institute, Hadassah Hebrew University Hospital, Jerusalem IL-91120, Israel

Dr. Johnny Amer

The Liver Institute, Hadassah Hebrew University Hospital, Jerusalem IL-91120, Israel

Deadline for manuscript submissions

31 October 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/241314

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

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