

Special Issue

Lipid Metabolism in Human Health and Diseases

Message from the Guest Editor

Lipids are organic compounds insoluble in water and soluble in organic solvents. They are the energy reserves of animals and accomplish different roles, ranging from maintaining body temperature, being the key constituents of cell membranes, and serving as chemical messengers, thus reflecting functions in the cell membranes, within the cytoplasm, and extracellularly. Balancing lipid levels in the blood is an important part of staying healthy. In recent years, with the increasing interest in lipid metabolism, more and more studies have shown that abnormal lipid metabolism is closely related to the occurrence and development of various human diseases, including cancer, cardiovascular, nervous system, and endocrine system diseases. Therefore, understanding how impairment in lipid metabolism can promote the development of such non-communicable diseases will offer a theoretical basis for their treatment and prevention and provide a new approach for the targeted treatments. This Special Issue will focus on lipid metabolism in various human diseases, including cardiovascular diseases, neurodegenerative diseases, endocrine system diseases, cancer, and other diseases.

Guest Editor

Dr. Arianna Vignini

1. Department of Clinical Sciences, Polytechnic University of Marche, 60100 Ancona, Italy
2. Research Center of Health Education and Health Promotion, Università Politecnica delle Marche, 60100 Ancona, Italy

Deadline for manuscript submissions

20 March 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/216144

*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)