

Special Issue

New Advances in Proteomics in Disease

Message from the Guest Editor

During the last thirty years, proteomics has proved to be a powerful tool to define the metabolic pathways and cellular mechanisms involved in the pathogenesis and development of human diseases. Besides the investigation of potential causes, the current interest in proteomics aims to identify new protein molecules as potential biomarkers, making proteomics a powerful prognostic and early diagnostic tool. Proteomics analysis enable the characterization of disease-associated proteins, their possible modifications, and reciprocal interactions contributing to understanding of human illnesses, including cancer, infectious, and autoimmune diseases. Together with the discovery of new therapeutical agents, proteomics can lead to a personalized medicine tracing the patient profile, their probability of getting sick, and specific treatment strategies for specific patient populations. This Special Issue aims to focus on the molecular mechanisms of pathogenesis in order to identify specific pathways involved in diseases and proteins useful for fast and precise disease detection.

Guest Editor

Dr. Valeria Magnelli

Department of Science and Technological Innovation, Università degli Studi del Piemonte Orientale "Amedeo Avogadro", Alessandria, Italy

Deadline for manuscript submissions

closed (30 July 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/179982

*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)