

Special Issue

MicroRNAs as Biomarkers and Therapeutic Targets in Human Diseases

Message from the Guest Editor

In this Special Issue we are interested in all aspects of microRNA sequences that are relevant to (i) their applications in the diagnosis of human diseases, or to (ii) innovative therapeutic strategies, including (but not restricted to) therapeutic knockdown of pathogenic microRNAs, or miRNA mimetics for microRNA replacement therapy. For this Special Issue, we invite manuscripts addressing one or several of the following aspects:

- Disease-related specific miRNAs expression patterns for early detection of human diseases
- Implication of miRNA in drug resistance
- Use of miRNAs as prognostic markers to predict patient's response to therapy
- New strategies for fabrication of innovative diagnostics tools for robust, precise and reliable detection of microRNA expression profiles
- Therapeutic modulation of microRNAs using selective inhibition of miRNA function
- Use of microRNA replacement for therapeutics treatment
- Experimental evidence of substantial transformative potential of microRNA-based therapies

Guest Editor

Dr. Elena V. Bichenkova

School of Health Sciences, Faculty of Biology, Medicine and Health,
University of Manchester, Oxford Rd., Manchester M13 9PT, UK

Deadline for manuscript submissions

30 September 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/229793

*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)