Special Issue

Extracellular Vesicles: From Molecular Mechanisms to Therapeutic Applications

Message from the Guest Editor

Extracellular vesicles (EVs) have emerged as critical players in intercellular communication, serving as vehicles for the transfer of proteins, lipids, nucleic acids, and metabolites between cells. In recent years, the field of EV research has rapidly advanced, uncovering novel insights into how these vesicles contribute to disease pathology, serve as biomarkers, and even act as potential therapeutic targets and delivery systems. These discoveries highlight the tremendous potential of EVs to revolutionize diagnostics and treatment strategies across various medical fields. This Special Issue aims to provide a platform for cutting-edge research and comprehensive reviews that explore the multifaceted roles of extracellular vesicles in health and disease. We welcome both original research and review articles that offer novel perspectives on the impact of EVs across different physiological and pathological landscapes.

Guest Editor

Prof. Dr. Jung-Hyun Lee

Department of Life Science, University of Seoul, Seoul, Republic of Korea

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/216561

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





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





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)

