Special Issue

Unveiling the Multifaceted Potential of Mesenchymal Stem/Stromal Cells and Their Extracellular Vesicles

Message from the Guest Editor

Mesenchymal stem/stromal cells (MSCs) and their extracellular vesicles (EVs) represent one of the most dynamic fields in regenerative medicine and advanced therapies. While MSCs and EVs are recognized for their roles in immunomodulation and tissue repair, recent advances highlight their potential as scalable, cell-free products with broad therapeutic applicability. For this Special Issue, "Unveiling the Multifaceted Potential of Mesenchymal Stem/Stromal Cells and Their Extracellular Vesicles", we welcome contributions that explore molecular mechanisms, signaling pathways, and bioactive cargo, as well as studies in preclinical models and early-phase clinical trials. We also encourage submissions addressing critical aspects of translational development, including GMP-compliant manufacturing, quality control, and strategies for scale-up. By integrating molecular insights with preclinical and clinical evidence, this Special Issue will advance our understanding and accelerate the safe and effective use of MSCs and EVs in human health.

Guest Editor

Dr. Bruno Solano de Freitas Souza

Gonçalo Moniz Institute, Oswaldo Cruz Foundation (FIOCRUZ), Salvador 40296-710, Bahia, Brazil

Deadline for manuscript submissions

28 February 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/255701

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)

