

Special Issue

Role of Mesenchymal Stem/Stromal Cells (MSCs) in Human Diseases and Their Treatment

Message from the Guest Editor

The main scope of the issue “Role of Mesenchymal Stem/Stromal Cells (MSCs) in Human Diseases and Their Treatment” is to highlight the current state of knowledge of molecular mechanisms by which MSCs act in health and disease, exhibit potent paracrine properties, regulate host immune responses and inflammation, interact with the environment, and orchestrate tissue repair at both the local and systemic levels. MSC immunomodulatory, anti-fibrotic, and regenerative properties are mainly regulated through cytokines, microvesicles, and growth factors. Their therapeutic properties could be potentiated by genetic modifications and preconditioning. However, understanding side effects and better strategies to overcome challenges regarding cell engraftment, cryopreservation, cell growth and viability, cell sources, and appropriate dosage are critical to improving MSC therapeutic efficacy. Ever-increasing knowledge of the above-mentioned strategies will optimize MSC use and allow for a personalized cell treatment approach. We welcome original research and up-to-date review papers.

Guest Editor

Dr. Mirjana Jerkic

The Keenan Research Centre for Biomedical Science of St. Michael's Hospital, Unity Health Toronto, University of Toronto, Toronto, ON M5B 1T8, Canada

Deadline for manuscript submissions

20 June 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/245692

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](http://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](http://mdpi.com/journal/ijms)

About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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. José L. Quiles

Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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)

