

## Special Issue

# Emerging Strategies for Spinal Cord Injury: Cellular and Molecular Targets for SCI Repair and Recovery

### Message from the Guest Editor

The current standard of care for SCI patients has been limited to decompression of the cord, administration of anti-inflammatory medications, pain control, supportive care, and physical rehabilitation. Although improvements in care have increased the life expectancies of SCI patients and improved the quality of life, there is a substantial unmet need for reducing disability. Recently, several novel treatments have emerged as potential therapies for mitigating disabilities of patients with acute or chronic SCI, including infusion or injection of MSC or MSC-derived exosomes or sEVs, Multilineage-differentiating stress-enduring (Muse), NOGO receptor decoy proteins, engineered nanoparticles, and electrical stimulation. Understanding the mechanisms of action of these potential treatments will be important for assessing how any such therapies might be implemented in clinical settings and for moving candidate treatments towards clinical trials. This Special Issue will consider the cellular and molecular mechanisms underlying the therapeutic effects of emerging treatment approaches for SCI, as well as potential targets for new treatments.

---

### Guest Editor

Dr. Karen L. Lankford

Department of Neurology, Yale University School of Medicine, New Haven, CT 06510, USA

---

### Deadline for manuscript submissions

31 December 2026



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 10.0  
Indexed in PubMed



[mdpi.com/si/282027](https://mdpi.com/si/282027)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto: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 10.0  
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)* 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)