

Special Issue

Pathology and Treatment of Extracellular Vesicles in Neurodegenerative Diseases

Message from the Guest Editor

Extracellular vesicles are released by all cell types and contain proteins, microRNAs, mRNAs and other bioactive molecules. Extracellular vesicles play an important role in intercellular communication and in the regulation of the immune system and neuroinflammation. Several studies have shown that abnormal extracellular vesicle release or injury may lead to neuronal damage and inflammatory responses. In neurodegenerative diseases, studies of extracellular vesicles have shown a potentially important role.

Therefore, researchers hope to find new therapeutic strategies by gaining insight into the mechanism of action of extracellular vesicles in these diseases. Currently, some studies have begun to explore the use of extracellular vesicles as potential biomarkers for early diagnosis of neurodegenerative diseases. Additionally, some studies are trying to utilize extracellular vesicles to deliver therapeutic drugs or genes in the hope of influencing disease processes in the nervous system.

This Special Issue focuses on extracellular vesicles in the nervous system and neurodegenerative diseases in terms of their potential role and therapeutic applications.

Guest Editor

Dr. Daisy Sproviero
IFOM—The FIRC Institute of Molecular Oncology, 20139 Milan, Italy

Deadline for manuscript submissions

closed (20 March 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/200175

*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)* 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 (Organic Chemistry)