## **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





# 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)

