

## Special Issue

# Unraveling the Molecular Mechanisms of Neurodegeneration

### Message from the Guest Editor

Neurodegenerative diseases are among the leading causes of disability and death worldwide. The incidence of these disorders, including Alzheimer's disease, Parkinson's disease, Huntington's disease, and amyotrophic lateral sclerosis, is on the rise, mainly due to the aging population. A variety of genetic and environmental factors have been identified as contributors to the pathogenesis of these diseases. Despite their distinct pathological mechanisms, neurodegenerative diseases share several common features, such as mitochondrial dysfunction, oxidative stress, aberrant exon splicing, and accumulation of misfolded/pathological proteins. Understanding these shared mechanisms that lead to the progressive loss of neurons remains one of the most significant challenges for neuroscientists today. This Special Issue will collect scientific contributions that may enhance our understanding of established mechanisms or propose novel pathways involved in neuronal death. These insights will not only deepen our understanding of neurodegeneration but also provide new directions for developing future therapies to combat these devastating conditions.

---

### Guest Editor

Dr. Michela Ferrucci

Department of Translational Research and New Technologies in Medicine and Surgery, University of Pisa, 56126 Pisa, Italy

---

### Deadline for manuscript submissions

20 November 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/216126](https://mdpi.com/si/216126)

*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 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)