

## Special Issue

# Neurotoxicity: Cellular Death Mechanisms in the Pathogenesis of Neurodegenerative Diseases

### Message from the Guest Editors

Neurotoxicity resulting in adverse effects on the nervous system and neurological function is a serious public health concern. Growing evidence suggests a strong link between neurotoxicity and the development of neurodegenerative diseases, which generally lack effective treatments. Thus, understanding the intricate mechanisms behind neurotoxicity is essential for identifying and addressing the pathways involved in neurodegeneration.

This Special Issue aims at underscoring neurotoxicity as a critical factor in the progression of neurodegenerative diseases, such as Parkinson's and Alzheimer's diseases. We invite submissions that provide innovative insights into the molecular mechanisms connecting toxic exposure to the onset and advancement of these conditions. Special attention will be given to potential therapeutic targets related to neurotoxicity, including ferroptosis and mitochondrial dysfunction, which are vital for mediating neurodegeneration. Furthermore, we encourage manuscripts that explore neuroprotective strategies designed to mitigate the harmful effects of neurotoxicity, thereby enhancing resilience against neurodegeneration.

---

### Guest Editors

Dr. Mohammed Jakaria

School of Health Sciences, Purdue University, West Lafayette, IN 47907, USA

Prof. Dr. Jason Cannon

School of Health Sciences, Purdue University, West Lafayette, IN 47907, USA

---

### Deadline for manuscript submissions

30 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/232651](https://mdpi.com/si/232651)

*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)