

## Special Issue

# Molecular Study and Treatment of Motor Neuron Diseases

### Message from the Guest Editors

Motor neuron diseases (MNDs) are a group of progressive neurological disorders in which motor neurons undergo degeneration and death. It includes diseases such as amyotrophic lateral sclerosis (ALS), progressive bulbar palsy (PBP), primary lateral sclerosis (PLS), progressive muscular atrophy (PMA), spinal muscular atrophy (SMA), spinal and bulbar muscular atrophy (SBMA), and post-polio syndrome. Although recent progress in neurochemical, physiological, genetic investigations has led to the identification of several cellular processes that seem to be involved in the motor neuronal degeneration, certain questions about the pathogenic mechanisms of MNDs remain unknown. Comprehension of these underlying mechanisms is of paramount importance because it can play a crucial role in the research and development of novel therapeutic strategies. This Special Issue invites submissions of original papers and review articles that highlight the latest discoveries and advancements in the field of pathophysiological mechanisms, biomarker research and novel therapeutic targets in MND.

### Guest Editors

Dr. Simona Rossi

CNR-Istituto di Farmacologia Traslazionale, 00133 Rome, Italy

Dr. Savina Apolloni

Department of Biology, Tor Vergata University of Rome, 00133 Rome, Italy

### Deadline for manuscript submissions

20 August 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/185903](https://mdpi.com/si/185903)

*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*, 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)