

Special Issue

Amyotrophic Lateral Sclerosis: From Molecular Basis to Therapies

Message from the Guest Editor

Amyotrophic Lateral Sclerosis (ALS) is one of the most common neurodegenerative diseases, characterized by progressive paralysis and death, usually due to respiratory failure. Despite significant advancements in understanding ALS pathomechanisms over the past decades, its exact cause remains unknown, and no effective treatment is currently available. As a result, ALS continues to be a major focus of scientific research. This Special Issue aims to collect both original research and review articles exploring innovative pathomechanisms and potential therapeutic targets, such as: (1) Novel candidate genes and gene-specific therapeutic approaches (2) Epigenetic mechanisms in ALS pathogenesis (3) Innovative disease models for ALS research (4) Neuroinflammatory and immune system contributions to ALS progression (5) Mitochondrial dysfunction and oxidative stress as key pathogenic factors We welcome contributions that offer new insights into these topics, helping to advance our understanding of ALS and uncover potential therapeutic strategies.

Guest Editor

Dr. Matteo Bordoni

Cellular Models and Neuroepigenetics Unit-IRCCS Mondino Foundation, 27100 Pavia, 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/232104

*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)