

Special Issue

Advances in Pathogenesis, Biomarkers, and Therapeutic Development in Huntington's Disease

Message from the Guest Editor

Huntington's disease (HD) is a hereditary neurodegenerative disorder caused by a CAG repeat expansion in the HTT gene, leading to the production of mutant huntingtin and progressive motor, cognitive, and psychiatric decline.

This Special Issue aims to gather high-quality contributions that expand our molecular, cellular, clinical, and translational understanding of Huntington's disease. We welcome submissions addressing the following:

- Genetics, genetic modifiers, and somatic instability, including DNA repair pathways and modifiers of disease onset and progression.
- Mechanistic studies on mutant huntingtin, protein–protein and protein–RNA interactions.
- Transcriptional, epigenetic, and splicing dysregulation, including the biology and pathogenic role of HTT_{exon1}.
- Biomarker development in CSF, plasma, neuroimaging, electrophysiology, and digital endpoints.
- Preclinical models, including iPSC-derived neurons, glia, and organoids.
- Therapeutic discovery, target identification, and mechanism-of-action studies.
- Neurobiology of clinical manifestations
- Advances in translational research and clinical trial methodology.

Guest Editor

Dr. Jesús Pérez-Pérez

1. Huntington Clinic, Movement Disorders Unit, Neurology Department, Sant Pau Hospital, Barcelona, Spain
2. Medicine Department, Universitat Autònoma de Barcelona (UAB), 08193 Barcelona, Spain

Deadline for manuscript submissions

closed (31 May 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/263403

*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 5.6
CiteScore 10.0
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 (Inorganic Chemistry)