

Special Issue

Oxidative and Redox Signalling in Neurological Diseases

Message from the Guest Editor

This Special Issue in the *International Journal of Molecular Sciences* will explore the diverse and growing role of gasotransmitters—namely nitric oxide (NO), carbon monoxide (CO), and hydrogen sulfide (H₂S)—in the pathophysiology of neurological diseases, with particular emphasis on their involvement in oxidative stress. These endogenous gaseous molecules have emerged as critical regulators of redox signalling, mitochondrial dynamics, neuroinflammation, and cell survival, all of which are fundamental to the onset and progression of a wide array of neurological disorders. This Special Issue aims to provide a comprehensive platform for high-impact research that bridges basic science with translational perspectives, highlighting how the modulation of gasotransmitter pathways could lead to novel therapeutic strategies. It will welcome contributions addressing both acute (e.g., stroke, traumatic brain injury) and chronic (e.g., Alzheimer's disease, Parkinson's disease, and multiple sclerosis) neurological conditions.

Guest Editor

Dr. Malamati Kourti

Department of Life Sciences, School of Sciences, European University Cyprus, 6 Diogenis Str., Nicosia 1516, Cyprus

Deadline for manuscript submissions

31 January 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/242937

*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*, 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)