

Special Issue

Brain Stroke Across the Lifespan: Mechanisms, Models, Translational Advances and Impacts Beyond the Brain

Message from the Guest Editor

Stroke affects individuals across all stages of life, including neonates, children, and adults, with distinct etiologies, pathophysiology, and clinical outcomes associated with each age group. Perinatal and pediatric strokes are frequently underdiagnosed and understudied, often leading to delayed intervention and a lack of age-specific, evidence-based treatment guidelines. In adults, the advent of intravenous thrombolysis and endovascular thrombectomy has markedly improved outcomes in eligible patients. However, these interventions remain limited by strict time windows and accessibility, leaving many without effective acute treatment options.

This research topic welcomes contributions that explore the impact of stroke on both the brain and peripheral systems. We encourage submissions focused on mechanistic studies, translational models, and clinical research that advance our understanding of stroke as a complex, multisystem condition. A deeper exploration of the interplay between cerebral injury, systemic physiology, and recovery processes is essential for the development of novel, effective therapeutic strategies across all age groups and stroke types.

Guest Editor

Dr. Gabriele Deidda

1. Faculty of Medicine & Dentistry, Queen Mary University of London, Malta Campus, VCT 2520 Victoria, Malta
2. Department of Biomedical Sciences, University of Padova, 35131 Padova, Italy
3. Padova Neuroscience Center (PNC), University of Padova, 35131 Padova, Italy

Deadline for manuscript submissions

20 June 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/244489

*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)