

Special Issue

Molecular Researches on Ischemic Stroke

Message from the Guest Editor

Stroke has become a major cause of death and adult long-term disability worldwide; in order to establish effective treatments, understanding the wide range of molecular pathways leading to neuronal death or enhancing damage is one of the important goals in stroke research. Critical points for stroke physiopathology are local hypoxia that damages brain tissue and neuronal death. Reperfusion therapies, the only available treatments for ischemic stroke, work only directly on the first mechanism. Reperfusion treatments outside of a therapeutic time window could result in a hemorrhagic transformation. Many mechanisms are involved independently or in combination in stroke neuronal death. The loss of astrocytes, as well as injury to white matter, may play a crucial role in stroke physiopathology. Potential drugs for stroke are agents that could provide the inhibition of cell death pathways.

This Special Issue aims to provide new avenues into molecular research on ischemic stroke. Submissions highlighting each of these topics are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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.

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