





an Open Access Journal by MDPI

Ischemic Brain Neurodegeneration

Guest Editor:

Prof. Dr. Ryszard Pluta

Department of Pathophysiology, Medical University of Lublin, 20-090 Lublin, Poland

Deadline for manuscript submissions:

closed (31 August 2021)

Message from the Guest Editor

Brain ischemia is one of the most common forms of neurodegeneration. New data indicate that ischemic processes may be involved in the development of Alzheimer's disease. First, ischemic stroke and Alzheimer's disease have the same risk factors. Second, the postischemic brain generates a unique pattern of neuronal death in the hippocampus with serious general brain atrophy, which is similar to the atrophy noted in Alzheimer's disease. Third, neuroinflammatory reactions have an important role in the progress of the post-ischemic brain injury and Alzheimer's disease. Fourth, data suggest post-ischemic brain injury may neuropathology of folding proteins characteristic of Alzheimer's disease such as amyloid and tau protein. It is suggested that Alzheimer's disease-related proteins, like amyloid and tau protein, and their genes, play a fundamental role in post-ischemic neuronal death and neurodegeneration. It is, therefore, important to better understand the contribution of neuronal death to neurodegeneration, the molecular and mechanisms leading to neuronal death, and to identify natural or unnatural molecules that can prevent this death.













an Open Access Journal by MDPI

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

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.

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 (Inorganic Chemistry)

Contact Us