

Special Issue

Ischemic Brain Neurodegeneration

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 post-ischemic 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 that post-ischemic brain injury may induce 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 cellular mechanisms leading to neuronal death, and to identify natural or unnatural molecules that can prevent this death.

Guest Editor

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