



Beyond the Primary Infarction: Focus on Mechanisms Related to Secondary Neurodegeneration after Stroke

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Message from the Guest Editor

There is now emerging evidence that stroke can cause progressive loss of remote brain regions that are connected to the primary infarction site, a process termed as secondary neurodegeneration. Secondary neurodegeneration has been consistently observed in the thalamus, substantia nigra and recently in the hippocampus. Further, secondary neurodegeneration has been linked to several post-stroke functional disturbances, such as cognitive impairment, depression and fatigue. We are seeking preclinical and clinical studies that expand our understanding on the mechanisms related to secondary neurodegeneration after stroke as well as the development of novel strategies that can ameliorate secondary neurodegeneration, leading to functional recovery.

Keywords

- stroke
- secondary neurodegeneration
- molecular mechanisms
- Wallerian degeneration
- blood-brain-barrier breakdown
- amyloid- β





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Message from the Editor-in-Chief

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