Behavioural Neurology

Special Issue on
Stroke: From Molecular Biology to Behavioral Impairment

CALL FOR PAPERS

Stroke is a cerebrovascular disorder but affects multiple molecules, multiple cell types, and peripheral organs. The pathophysiology of stroke is rather complicated and the past approach targeting one molecule with one treatment option has not achieved clinical success. Therefore, it is necessary to discuss stroke event from multiple directions, examining cell interactions, defining contributions from other periopheral organs such as spleen, kidney, and heart during an acute stroke event. Endovascular therapy guided by neuroimaging has achieved some positive results in recent years but neurobiology of imaging and endovascular therapy has rarely been studied. Finally, the quality of life of stroke patients evaluated mostly by behavioral functions and the underlying neurobiology remains to be clarified.

The aims of this special issue are to update the new developments in the basic science research of stroke, translation, and neurobiology of clinical treatment and neurobehavioral functional evaluations. Potential pharmacological and molecular treatment options especially their potential translations into future clinical trials and managements will be discussed.

Potential topics include, but are not limited to:

- Behavior and cognitive functional disorders and evaluations after stroke
- Potential treatment strategies to improve behavior functions after stroke
- Role of cerebral veins in behavior disorder after stroke
- Therapeutic targets for blood brain barrier protection
- Inflammation and ischemic and hemorrhagic stroke injury
- Cerebrospinal fluid dynamics and hydrocephalus after hemorrhagic stroke
- Cerebral vascular targets for acute ischemic and hemorrhagic stroke
- Pathophysiology of stroke, especially nonneuronal cell connections
- Endovascular therapy and vascular biology
- Novel pharmacological and molecular treatment strategies for stroke
- The interactions between peripheral organs and brain injury after stoke

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