

Special Issue

New Trends in Acute Ischemic Stroke

Message from the Guest Editor

Stroke is the second leading cause of death and a major contributor to disability worldwide, with ischemic stroke being the most common type. Acute stroke treatment has had two major breakthroughs over the past 30 years, both involving early reperfusion of an ischemic brain. The currently available therapy is unable to limit secondary brain injury associated with inflammation and oxidative damage during reperfusion. In an attempt to prevent ischemic neurons from irreversible injury, neuroprotective agents are under *investigation for use* alone or as an add-on therapy in standard care. Interestingly, while neuroinflammation contributes to brain damage during the early phase of ischemic stroke, the inflammatory response could facilitate recovery at late stages by promoting neurogenesis, angiogenesis and neuronal plasticity. Improvements in the imaging techniques and endovascular management with modern devices, along with novelties *in the field of neuroprotection and immunomodulation will bring new insights* for understanding stroke.

Guest Editor

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