Special Issue

Therapeutic Targets of Neuroprotection and Neurorestauration in Ischemic Stroke

Message from the Guest Editor

Stroke is one of the leading causes of death and disability worldwide. The current treatment strategies for ischemic stroke primarily focus on reducing the size of ischemic damage and rescuing dying cells early after occurrence. The pathophysiology of strokes is complex and it involves excitotoxicity mechanisms, inflammatory pathways, oxidative damage, ionic imbalances, apoptosis, angiogenesis, neuroprotection, and neurorestoration. Multiple factors such as excitotoxicity, inflammation, angiogenesis, and neurogenesis are the main pathological processes that underlie acute and chronic ischemic brain injury. Furthermore, their intimate interactions mediate blood–brain barrier permeability and increase neurovascular unit structural damage, as well as hemorrhagic transformation during an ischemic stroke. Neuroprotective and neurorestorative therapy represent two major drug intervention strategies for ischemic strokes. The aims and scope of this Special Issue are to enhance our knowledge concerning the therapeutic targets of neuroprotection and neurorestauration in ischemic stroke.

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