Special Issue

Pathophysiological Mechanisms Underlying Neurodegenerative Disorders

Message from the Guest Editor

Neurodegenerative disorders (NDD) are a group of diseases characterized by selective dysfunction and progressive loss of neurons, glial cells, and their networks in different parts of the nervous system. Patients with NDD display progressive cognitive loss and/or motor dysfunction as a consequence. Despite the wide variety of causes of NDD, several research groups have demonstrated that they share common pathways such as the accumulation of insoluble protein aggregates, apoptosis, necrosis, excitotoxicity, and neuroinflammation. Other significant contributors to neurodegeneration include diminished autophagy/lysosomal activity, downstream oxidative stress, and mitochondrial dysfunction. Animal models are effective research tools for figuring out the causes and molecular mechanisms of neurodegenerative diseases as well as discovering new therapeutic agents. This Special Issue aims to present the latest updates on the molecular mechanisms of neurodegenerative diseases in both animal and human studies.

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