Special Issue

Unraveling the Molecular Mechanisms of Neurodegeneration

Message from the Guest Editor

Neurodegenerative diseases are among the leading causes of disability and death worldwide. The incidence of these disorders, including Alzheimer's disease, Parkinson's disease, Huntington's disease, and amyotrophic lateral sclerosis, is on the rise, mainly due to the aging population. A variety of genetic and environmental factors have been identified as contributors to the pathogenesis of these diseases. Despite their distinct pathological mechanisms, neurodegenerative diseases share several common features, such as mitochondrial dysfunction, oxidative stress, aberrant exon splicing, and accumulation of misfolded/pathological proteins. Understanding these shared mechanisms that lead to the progressive loss of neurons remains one of the most significant challenges for neuroscientists today. This Special Issue will collect scientific contributions that may enhance our understanding of established mechanisms or propose novel pathways involved in neuronal death. These insights will not only deepen our understanding of neurodegeneration but also provide new directions for developing future therapies to combat these devastating conditions.

Guest Editor

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