

Special Issue

Molecular Pathology of Neurodegenerative Diseases and Neuroprotective Agents

Message from the Guest Editor

Neurodegenerative diseases (NDDs) affect various brain regions, causing a progressive decline in synapses, neurons, glial cells, and interconnected networks. These alterations result in a gradual decline in cognitive functions and motor skills. NDDs are intricate neurological conditions that consist of various processes, including oxidative stress, mitochondrial dysfunction, and neuroinflammation. Abnormal forms of regular proteins that have undergone physical and chemical changes in the nervous system play a crucial role in NDDs. Regardless of advancements in comprehending the disease mechanisms, creating specific and efficient medications for treating NDDs still presents challenges. As research on NDDs progresses, treatments involving multiple approaches and targets could offer a fresh treatment option for these disorders. Comprehending the molecular events linked to NDDs could help demarcate a timeline for effective therapeutic intervention. This Special Issue is focused on the molecular pathology of NDDs and neuroprotective agents for treating various NDDs and/or combating aging.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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