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The Genetic Basis and Molecular Mechanisms of Neurodegeneration

Guest Editor:

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Message from the Guest Editor

Neurodegenerative disorders include heterogeneous conditions such as Alzheimer's disease; frontotemporal, Lewy body, and other dementias; Parkinson's disease; amyotrophic lateral sclerosis; Huntington's disease; and prion disorders. These disorders pose an important public health threat given their increasing prevalence due to population aging worldwide. This awareness has encouraged efforts to decipher the genetic and molecular mechanisms underlying these disorders with the aim of developing rational therapeutic approaches.

Despite their phenotypic diversity, neurodegenerative disorders frequently overlap on clinical grounds and share common pathophysiological mechanisms, such as protein misfolding, defective protein degradation, mitochondrial dysfunction, impaired axonal transport, DNA repeat expansions, DNA damage, excitotoxicity, oxidative stress, and aberrant programmed cell death.

The aim of this Special Issue is to include studies that showcase both common and divergent aspects of neurodegenerative disorders, including their genetic and molecular basis, thus advancing knowledge in the field.

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Message from the Editor-in-Chief

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