

Special Issue

Mitochondria in Neurodegenerative Disease: Mechanisms and Therapeutic Targets

Message from the Guest Editors

This Special Issue aims to provide a focused platform for original research and comprehensive reviews that investigate the role of mitochondrial dysfunction in neurodegeneration. We welcome submissions exploring molecular mechanisms underlying mitochondrial impairment, including oxidative stress, mitochondrial DNA damage, impaired bioenergetics, and altered mitochondrial trafficking in neurons and glial cells. Additionally, we encourage studies addressing how mitochondrial dysfunction intersects with protein aggregation, neuroinflammation, and aging. Another key focus of this Special Issue is the exploration of mitochondria-targeted therapeutic strategies. These may include pharmacological agents, genetic modulation, lifestyle interventions, or innovative delivery systems aimed at restoring mitochondrial integrity and function. Through this Special Issue, we aim to deepen the understanding of mitochondrial involvement in neurodegenerative disease mechanisms and highlight emerging opportunities for therapeutic intervention.

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