



## Molecular Mechanism in the Pathogenesis of Alzheimer's Disease and Related Neurodegenerative Diseases

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### Message from the Guest Editor

Dear Colleagues,

Alzheimer's disease (AD) and related neurodegenerative disorders are complex conditions with intricate molecular underpinnings. AD often shares pathological features with other neurodegenerative diseases, including Parkinson's disease, Huntington's disease, and amyotrophic lateral sclerosis. Common mechanisms include protein misfolding, aggregation, and accumulation, leading to the formation of characteristic pathological structures, such as amyloid plaques and neurofibrillary tangles.

Understanding these intricate molecular mechanisms holds promise for the development of targeted therapeutic interventions, such as amyloid- $\beta$  aggregation inhibitors, tau-directed therapies, anti-inflammatory agents, and modulators of proteostasis. Integrative research efforts are needed to unravel the complex interplay between these mechanisms and to develop effective strategies for the prevention and treatment of Alzheimer's Disease and related neurodegenerative disorders.





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