



## Alzheimer's Disease: From Pathogenesis to Treatment

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### Message from the Guest Editor

Alzheimer's disease (AD) is a progressive neurodegenerative disorder characterized by the presence of insoluble amyloid plaques, hyperphosphorylation of tau with formation of intracellular neurofibrillary tangles. Furthermore, neuronal loss in different transmitter systems lead to neurochemical deficits that contribute to cognitive and behavioral symptoms. The field has gradually moved away from the simple assumption proposed by the amyloid hypothesis to new theories of pathogenesis, including neuroinflammation, changes in insulin resistance, calcium modulation, mitochondrial alterations and infections, between others.

Currently approved treatments for AD are “symptomatic” agents that aim to improve cognitive and behavioral symptoms without altering the underlying course of the disease and recently, two monoclonal antibodies targeting amyloid plaques have been approved.

With this Special Issue, we would like to focus on the mechanism of action (MoA) of pharmacological symptomatic and disease-modifying treatments for AD and describe novel non-pharmacological interventions used to manage both cognitive and behavioral symptoms.





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