



## Advances in Alzheimer's Disease and Healthy Aging

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### Message from the Guest Editors

Dear Colleagues,

Age-related cognitive decline—especially memory impairment—is one of the most prevalent consequences of growing older. The severity of age-related cognitive decline predisposes to neurodegenerative diseases like Alzheimer's disease (AD). The molecular mechanisms of age-related cognitive decline and AD are considered to be multifactorial, and implicate the interaction of genetics and environmental factors (nutrition and pollutants, among others), acting as susceptibility factors or triggers that promote brain injury accumulation due to their chronicity during aging.

Although the main neuropathological hallmarks such as amyloid plaques and tau pathology are well-described, the causes of AD remain unknown, and no preventive or curative treatments are available. The treatments are currently divided into acetylcholinesterase inhibitors (AChEIs), and an antagonist of the N-methyl-D-aspartic (NMDA) receptor.





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## Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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