

Tentative Outline

Special Thematic Issue for the journal :

Current Alzheimer Research

Title of the Thematic Issue

Perspectives and Dynamic Predictive Factors Related to Mild Cognitive Impairment (MCI) and Alzheimer's Disease (AD) or Conversion from MCI to AD

Sectional Editor: Lu Yanxia

• **Scope of the Thematic Issue:**

Cognitive decline, especially Alzheimer's disease (AD), is neurodegenerative disorders characterized by the cerebral accumulation of amyloid beta (A β) and tau and other proposed pathophysiologies. Mild cognitive impairment (MCI) and AD impair the quality of life of the elderly and pose huge public health burdens to the society. The development of MCI and AD are a consequence of the interaction of genetic and environmental factors including ApoE4 and other genetic risk factors, lifestyle, education level, metabolic and vascular factors, nutrition, physical and mental health status, etc. Further understanding of the etiology of MCI and AD, and the key factors deciding the progression from the prodromal stage of dementia to AD, is of fundamental significance. This special thematic issue aims to compile original work and expert reviews on perspectives and dynamic predictive factors of MCI and AD, in order to promote discussion and provide references for future research aimed to fully understand or cure cognitive decline.

Keywords: Alzheimer's disease; Predicting factors; Etiology; Therapeutical opportunities; Mild cognitive disorder; Cognitive decline.

Sub-topics:

- Current research advancements, methodologies, and main findings of pivotal factors and their synergetic effects on the development and progression of MCI and AD;
- Perspectives on etiologies and the underlying mechanisms that may facilitate the breakthrough of the treatment or prevention of MCI and AD;
- Future research directions and potential effective targets of cognitive research.

Tentative titles of the articles:

- Understanding the etiology of mild cognitive impairment and Alzheimer's disease: progress and future research directions
- Identification of dynamic predictive factors for Alzheimer's disease and other neurodegenerative disorders: therapeutical implications
- A comprehensive review of the prevention of mild cognitive impairment and Alzheimer's disease
- A meta-analysis of the predictors of mild cognitive impairment and Alzheimer's disease and future implications
- Targeting Alzheimer's disease: prevalence, research progress, and future directions
- Novel technologies and methodologies in the prevention and treatment of Alzheimer's disease
- Exosomes as the underlying mechanisms of Alzheimer's disease and other neurodegenerative disorders

Schedule:

✧ Thematic issue submission deadline: 31 December 2023

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