Alzheimer’s disease (AD)

Alzheimer’s disease (AD) is one of the most debilitating neurodegenerative diseases of our times affecting many brain areas including those center regulating thought, memory, motor tasks, and language. In 2014, 5 million of the population in USA were living with AD and it is expected to reach 14 million by 2060. In this disease, amyloid-β (Aβ) accumulates to form plaques, and tau aggregates to form tangles. During this process pathological signaling cascades are also activated by inflammation, oxidative stress, enzymatic process etc. An interesting manuscript reviewed by Hampel et al. 2010 showed that interventions that slow down the clinical onset of dementia by 1 year would decrease the prevalence of AD by 9 million cases in 2050. However, little is known about the disease and progression of AD.

Because of the lack of appropriate cure targeting AD, families are facing economic burden and mental disturbance. For instance, in 2040, these costs are projected to jump to between $379 and more than $500 billion annually. In addition, it is well established that AD is one of the top 10 leading cause of death in the United States. This special issue particularly focuses on the mechanisms to dissect Alzheimer’s diseases by converging different perspectives together. We believe that by advancing the current state of knowledge, one could formulate a better strategy of therapeutic intervention. Journal of Integrative Neuroscience (JIN) encourages both the submission original discovery and use of the latest tools and technology in the field of AD. We are highly enthusiastic to welcome the manuscripts that preferentially fall under this topic to advance the field forward.

In summary, we encourage researchers and academicians all around the world to disseminate their original findings in the form of research papers, mini-reviews, opinions, letter to editors, short communication towards stimulating diagnosis, nature, cause, therapeutic interventions and public health aspects of AD issues.

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