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Research Abstract

Alzheimer's disease accounts for most of the causes for dementia. There are actually three forms of Alzheimer's disease. These include late onset, early onset and familial AD. Worldwide, at least 50 million people are believed to be living with Alzheimer's disease or other dementias. If breakthroughs are not discovered, rates could exceed 152 million by 2050. This semi synthetic modifications will be done to improve the antagonist activity in P2X7 receptor therefore, expected to overcome the receptor mediated adverse effects of existing drugs. Synthesis the compound and spectral studies after thoroughly conducting *in vitro* free radical scavenging activities & evaluation of Alzheimer's targets P2X7 studies and *In vivo* evaluation of semi synthetic compounds studies, the synthesis molecules will be subjected SAR and 3D-QSAR studies to create good pharmacophores model with more significant memory enhancing activity. Therefore, expected to have better efficacy and associate with fewer adverse effects than the existing agents for the treatment of cognitive impairment.

Fellowships: No

Awards & Scholarships: No

Way Forward: I want to see myself as a scientist in my respective field and so that I can share my research benefits to the society.