TITLE: Channelopathy in Alzheimer's disease

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ABSTRACT (upto 300 words)

Alzheimer's disease (AD) is the most common cause of dementia among the elderly. However, to date, scientists have not found any effective treatment for this condition. Some studies are currently focusing on channelopathy or channelotherapy to target the generation and aggregation of Aβ and the phosphorylation of tau as a key strategy for drug therapy. The effect of potassium channel efflux, which is synchronized with AD severity, is given more priority than calcium influx. It has been reported that an excess of intracellular Ca2+ in AD affects Aβ production and Tau hyperphosphorylation. Sodium-chloride channel activity can also exacerbate AD. Data suggests the involvement of different types of channels, agonists, and antagonists in AD pathogenesis or AD therapeutics. However, further investigations are needed to reveal the role of these channels as a mediator in patients suffering from AD.

BIOGRAPHY (upto 200 words)

Mohammad Shabani obtained his Ph.D. from Shahid Beheshti University, Iran, at the age of 34. He currently serves as the Director of Research Development and Evaluation at Kerman University of Medical Sciences, Kerman, Iran. With over 200 publications, his works have been cited more than 3,823 times, and he has an h-index of 36 on Google Scholar. In addition, he serves as an editorial board member for several prestigious journals and is the Chief Editor of Addiction and Health J.

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