

Tentative Outline

Special Thematic Issue for *Central Nervous System Agents In Medicinal Chemistry*

Effects of Music on Working Memory Capacity among Alzheimer's Elderly With Central Auditory Processing Disorder

Guest Editor: Fereshteh Bagheri

Aims & Scope:

Central Auditory processing disorder (CAPD) and Alzheimer's disease (AD) are strongly related. As Alzheimer's disease advanced its expansion to the auditory cortex and higher-level auditory centers although the peripheral auditory system remains normal; this type of hearing problem means Central auditory processing disorder. Central auditory processing disorder that starting from the temporal lobe, may start earlier than Alzheimer's disease and lead to deficits in speech production. Most of the older adults have speech perception problems in noisy places. Also working memory capacity and cognitive functions significantly decrease with aging. The evidences demonstrated that cognitive abilities are impacted by music. Listening to music affects our behavior, activities and emotional state. Music has positive effects on mood. The effects of music on memory tasks related to its effects on mood and emotion. One of the destructive processes in neurodegenerative disease that involved memory such as Alzheimer disease is atrophy and decrease in number of neurons in the brain areas especially in the hippocampus.

So it is very necessary to conduct those type of research based on individuals with Alzheimer's disease and central auditory disorder.

Keywords: Central Auditory processing disorder, Alzheimer's disease, temporal lobe, peripheral auditory, speech perception, working memory, cognitive functions, older adults

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Relation between central auditory processing and Alzheimer's disease in older adults
- Role of Event-related potentials in evaluation of memory loss
- Effect of music on working memory capacity among older adults
- Prevalence of speech perception disorders in older adults

Schedule:

- Manuscript submission deadline: September 2020
- Peer Review Due: October 2020
- Revision Due: November 2020
- Announcement of acceptance by the Guest Editors: December 2020
- Final manuscripts due: January 2021

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