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Neurodegenerative, Dementias and Neurogenesis

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Among a wide range of neuropsychiatric and neurological disorders, dementia which is classified as a neurodegenerative disorder is one of the diseases with the highest prevalence rate. Characteristic features of dementia originate from progressive cognitive decline at a significant level. While the existence of advanced research on therapeutic interventions with the aim of preventing the cognitive impairment observed in dementia, there is an emerging booming research area that becomes one of the controversial topics in the neuroscientific community, called neurogenesis. It has been claimed that neurogenesis is a research field that gives rise to the fact that people can generate new neurons. The major discussion point that has been given in this study is whether the adult-born neurons could have a contribution to adult brain functioning. In this regard, this study approaches neurogenesis by demonstrating structural and functional evidence of the contribution of adult-born neurons formed in the hippocampus. It has been argued that there is a constant renewal cycle of the neurons that brings the question of whether this refurbishment indicates that there is a functional role for these neurons in neurodegenerative diseases, especially in dementia. Thus, the recent improvements in the field of adult hippocampal neurogenesis in dementia have been discussed.

Biography

Ebru Ozkamn is a master's student in MSc Applied Neuroscience to make a difference in human brain studies by holding a background in interdisciplinary/multifaceted research; certified ballet/dance instructor from the Royal Academy of Dance; a graduate student from the LL.M Master of Law; and a future graduate of Psychology degree. Her career objective is to use my academic experience to pursue a profound career in human brain studies and to develop enhanced therapeutic treatment mechanisms for the prevention and implementation of early interventions for neurodevelopmental and neurological disorders alongside her plans for further study into the mechanisms of underlying mental health disorders by adding qualitative research methods.