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Dear Editor-in-Chief

We wish to submit a new manuscript entitled “The Ameliorative Effects of Different Transcranial Electrical Stimulation (tES) Paradigms on Novel Object Recognition Task in a Rat Model of Alzheimer's Disease” for consideration by the Galen medical journal.

We confirm that this work is original and has not been published elsewhere nor is it currently under consideration for publication elsewhere.

In this paper, we report on comparing the effects of four different tES Paradigms on cognitive impairment caused by beta amyloid 25-35 (Aβ 25-35) in male rats by novel objective recognition test. This is the first time that four paradigms are assessed in a cognitive impairment. The results showed that application of these paradigms reversed beta amyloid-induced impairment. Due to the importance of cognitive impairment in Alzheimer's disease, the results of this study can be helpful and help the process of treating Alzheimer's patients.

Please address all correspondence concerning this manuscript to me at [zarifkara@sums.ac.ir](mailto:zarifkara@sums.ac.ir) .

Thank you for your consideration of this manuscript.

Sincerely,

Prof. Asasollah Zarifkar