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Education and Qualifications:

- 1- Doctor of cognitive neurosciences; Institute of cognitive science studies, Tehran, Iran.
- 2- Doctor of human physiology; Isfahan University of Medical Sciences, Isfahan, Iran.
- 3- MSc in human physiology; Ahwaz University of Medical Sciences, Ahwaz, Iran.

Papers in International Journals

1. The effect of treadmill running on passive avoidance learning in animal model of Alzheimer disease. N Hosseini, H Alaei, P Reisi, M Radahmadi. *Int J Prev Med.* 2013 Feb;4(2):187-92.
2. The Effect of Synchronized Running Activity with Chronic Stress on Passive Avoidance Learning and Body Weight in Rats. M Radahmadi, H Alaei, MR Sharifi, N Hosseini, *Int J Prev Med.* 2013 Apr;4(4):430-7.
3. The effect of synchronized forced running with chronic stress on short, mid and long-term memory in rats. M Radahmadi, H Alaei, MR Sharifi, N Hosseini. *Asian J Sports Med.* 2013 Mar;4(1):54-62. Epub 2012 Nov 20.
4. Postmenopausal effects of intrastriatal estrogen on catalepsy and pallidal electroencephalogram in an animal model of Parkinson's disease. A Sarkaki, M Badavi, N Hoseiny, MK Gharibnaseri, F Rahim. *Neuroscience.* 2008 Jun 26;154(3):940-5.
5. Effects of different timing of stress on corticosterone, BDNF and memory in male rats. M Radahmadi, H Alaei, MR Sharifi, N Hosseini. *Physiol Behav.* 2015 Feb;139:459-67.
6. The effect of treadmill running on memory before and after the NBM-lesion in rats. N Hosseini, H Alaei, P Reisi, M Radahmadi. *J Bodyw Mov Ther.* 2013 Oct;17(4):423-9.
7. Novel effects of Rosa damascena extract on memory and neurogenesis in a rat model of Alzheimer's disease. E Esfandiary, M Karimipour, M Mardani, H Alaei, M Ghannadian, J *Neurosci Res.* 2014 Apr; 92(4):517-30.
8. Effects of CA1 glutamatergic systems upon memory impairments in cholestatic rats. N Hosseini, M Nasehi, M Radahmadi, MR Zarrindast, *Behav Brain Res.* 2013 Nov 1;256:636-45.
9. Effect of chronic stress on short and long-term plasticity in dentate gyrus; Study of recovery and adaptation. M Radahmadi, N Hosseini, A Nasimi. *Neuroscience.* 2014 Nov 7;280:121-9.

10. Preventive and therapeutic effect of treadmill running on chronic stress-induced memory deficit in rats. M Radahmadi, H Alaei, MR Sharifi, N Hosseini. *J Bodyw Mov Ther.* 2015 Apr;19(2):238-45.
11. Effect of forced exercise and exercise withdrawal on memory, serum and hippocampal corticosterone levels in rats. M Radahmadi, H Alaei, MR Sharifi, N Hosseini. *Exp Brain Res.* 2015 Oct;233(10):2789-99.
12. Effect of exercise, exercise withdrawal, and continued regular exercise on excitability and long-term potentiation in the dentate gyrus of hippocampus. M Radahmadi, N Hosseini, H Alaei. *Brain Res.* 2016 Dec 15;1653:8-13.
13. The Effect of Preventive, Therapeutic and Protective Exercises on Hippocampal Memory Mediators in Stressed Rats. M Radahmadi, N Hosseini, H Alaei, Mr Sharifi. *Malays J Med Sci.* 2016 Sep;23(5):29-37
14. Stress biomarker responses to different protocols of forced exercise in chronically stressed rats, Radahmadi, M., Alaei, H., Sharifi, M.R., Hosseini, N. *Journal of Bodywork and Movement Therapies*, 2017, 21(1), pp. 63–68 An Arbitrary Waveform Wearable Neuro-stimulator System for Neurophysiology Research on Freely Behaving Animals. MM Samani, A Mahnam, N Hosseini. *J Med Signals Sens.* 2014 Apr;4(2):94-102.
15. Effects of Cholestasis on Learning and Locomotor Activity in Bile Duct Ligated Rats. N Hosseini, H Alaei, M Nasehi, M Radahmadi, ZM Reza. *Malays J Med Sci.* 2014 Jan;21(1):19-28.
16. The effects of NBM- lesion on synaptic plasticity in rats, Hosseini, N., Alaei, H., Reisi, P., Radahmadi, M. *Brain Research*, 2017, 1655, pp. 122–127 Effect of electrical stimulation of nucleus accumbens with low, median and high currents intensities on conditioned place preference induced by morphine in rats. M Radahmadi, E Ramshini, N Hosseini, S Karimi, H Alaei. *Adv Biomed Res.* 2014; 3: 14.
17. Effects of stress on serum and hippocampal IL-1 β and glucose levels as well as retention in rats, Radahmadi, M., Hosseini, N., Alaei, H., Sharifi, M.R. *Indian Journal of Physiology and Pharmacology*, 2017, 61(2), pp. 141–151
18. Cholestasis progression effects on long-term memory in bile duct ligation rats. N Hosseini, H Alaei, MR Zarrindast, M Nasehi, M Radahmadi. *Adv Biomed Res.* 2014 Oct 20;3:215
19. Brain is modulated by neuronal plasticity during postnatal development, Kourosh-Arami, M., Hosseini, N., Komaki, A. *Journal of Physiological Sciences*, 2021, 71(1), 34
20. Overview of covid-19 and neurological complications, Hosseini, N., Nadjafi, S., Ashtary, B. *Reviews in the Neurosciences*, 2021, 32(6), pp. 671–691
21. Neurophysiologic implications of neuronal nitric oxide synthase, Kourosh-Arami, M., Hosseini, N., Mohsenzadegan, M., Komaki, A., Joghataei, M.T. *Reviews in the Neurosciences*, 2020, 31(6), pp. 617–636
22. A Systematic Review and Meta-analysis of the Role of Toll-like Receptor 9 in Alzheimer's Disease: The Protocol for a Systematic Review, N Hosseini, S Nadjafi, L Janani, Z Faraji, B Ashtari, SB Jameie, M Farhadi, ... *Thrita* 10 (1)
23. Brain is modulated by neuronal plasticity during postnatal development, M Kourosh-Arami, N Hosseini, A Komaki. *The Journal of Physiological Sciences* 71 (1), 1-16
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27. Is Virtual Reality a New Way to Support Patients Nearing the End Stages of Their Lives? N Hosseini, S Nadjafi, Thrita 8 (2), 2019
28. Interaction of Curcumin with One Subunit of Monoamine Oxidase-B in Comparison with Safinamide: An In Silico Study, S Nadjafi, N Hosseini, M Farhadi, F Khojasteh, Thrita 8 (1)

Presented Papers in International Conferences

- 1) N Hosseini, A. Sarkaki, M.Badavi, M.K.Gharibnaseri. The effect of intrastriatal injection of estrogen on pallidal field potential and rigidity in Parkinson –ovariectomized rats. *2nd International Congress of Pacific – Asia*, Tehran, Iran; 2004(May)
- 2) N Hosseini, Tahereh Safari1, Mehdi Abbasnejad. Effect of GABAA Receptor Antagonist on Opioid–Induced Antinociception in the Formalin test. *The 19th Iranian Congress of Physiology & Pharmacology*, Tehran, Iran; 3-6 November, 2009.
- 3) Tahereh Safari1, Mehdi Abbasnejad, N Hosseini. The Interaction of Morphine and γ -Aminobutyric Acid (GABA) Ergic System in Pain: Using The Rat–Formalin Model. *The 19th Iranian Congress of Physiology & Pharmacology*, Tehran, Iran; 3-6 November, 2009.
- 4) The effect of chronic stress and recovery on short, mid and long- term memory in rats. Radahmadi M, Alaei H, Sharifi MR, Hosseini N. *The 1st Basic and Clinical Neuroscience Congress*. Tehran, Iran; 7-9 November, 2012.
- 5) The treatment effect of treadmill running on memory in Alzheimeric rats.Hosseini N, Alaei H, Reisi P, Radahmadi M. *5th International Conference of Cognitive Science (ICCS 2013)*, Tehran, Iran; 7-9 May, 2013.
- 6) The effect of Stress Period Duration on Memory Deficit in Rats.Radahmadi M, Alaei H, Sharifi MR, Nasimi A, Hosseini N. *5th International Conference of Cognitive Science (ICCS 2013)*, Tehran, Iran; 7-9 May, 2013.
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- 8) The effect of regular exercise on memory deficit in Alzheimeric rats. Hosseini N, Alaei H, Nasimi A, Reisi P, Radahmadi M. *The 21th International Congress of Physiology & Pharmacology*, Tabriz, Iran; 23-27 August, 2013.
- 9) The Protective Effect of Physical Activity on Memory under Chronic Stress in Rats. Radahmadi M, Alaei H, Sharifi MR, Nasimi A, Hosseini N. *The 21th International Congress of Physiology & Pharmacology*, Tabriz, Iran; 23-27 August, 2013.
- 10) Short term synaptic plasticity at dentate gyrus of Alzheimeric rats. Hosseini. N, Hojjatallah Alaei, Ali Nasimi, Parham Reisi, Maryam Radahmadi. *The 2nd Basic and Clinical Neuroscience Congress*. Tehran, Iran; 18-20 December, 2013.

- 11) Effects of Different Electrical Simulations of Nucleus Accumbens on Morphine-Induced Conditional Place Preference in Rats. Radahmadi M, Alaei H, Ramshini F, Hosseini N. *The 2nd Basic and Clinical Neuroscience Congress*. Tehran, Iran; 18-20 December, 2013.
- 12) Exercise and hippocampal early-paired pulse inhibition in Alzheimeric rats. Hosseini. N, Hojjatallah Alaei, Ali Nasimi, Parham Reisi, Maryam Radahmadi. *The 3rd Basic and Clinical Neuroscience Congress*. Tehran, Iran; 29-31 October, 2014.
- 13) Effect of treadmill running before, after and during chronic stress on memory deficit in stressed Rats. Radahmadi M, Alaei H, Sharifi MR, Hosseini N. *The 3th Basic and Clinical Neuroscience Congress*. Tehran, Iran; 29-31 October, 2014.
- 14) Exercise and hippocampal early-paired pulse inhibition in Alzheimeric rats. **Hosseini N**, Alaei H, Nasimi A, Reisi P, Radahmadi M. *The 3rd Basic and Clinical Neuroscience Congress*. Tehran, Iran; 29-31 October, 2014.
- 15) Effect of Chronic Stress on Excitability and Short-term Plasticity of the Dentate Gyrus in Rats. Radahmadi M., Nasimi A., Alaei H, Sarifi MR, **Hosseini N**. *6th International Conference of Cognitive Science (ICCS 2015)*, Tehran, Iran; 27-29 April, 2015.
- 16) Effect of physical activity on serum and hippocampal corticosterone levels in rats. Radahmadi M., Nasimi A., Alaei H., Sarifi MR, **Hosseini N**. *The 22th International Congress of Physiology & Pharmacology*, Kashan, Iran; 7-11 September, 2015.
- 17) Exercise effects on paired pulse facilitation response in Alzheimeric rats. **Hosseini N**, Alaei H, Nasimi A, Reisi P, Radahmadi M. *The 22th International Congress of Physiology & Pharmacology*, Kashan, Iran; 7-11 September, 2015.
- 18) Paired pulse facilitation response in NBM lesion rats. **Hosseini N**, Alaei H, Nasimi A, Reisi P, Radahmadi M. *The 4th Basic and Clinical Neuroscience Congress*. Tehran, Iran; 23-25 December, 2015.
- 19) Radahmadi M, Alaei H, Sharifi MR, **Hosseini N**. Effect of exercise duration and exercise withdrawal on memory consolidation trend. *Atlas of science*. 2015; December 19. (<http://atlasofscience.org/effect-of-exercise-duration/>).
- 20) **N Hosseini**, H Alaei, P Reisi, M Radahmadi. The Effects of NBM-lesion on Synaptic Plasticity in Rats.. *Brain Research* 1655, Pages 122.