RESUME

Zohreh Tavassoli

Current Position: **Assistant professor**

Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Daneshjo St, Evin, Tehran, Iran

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EDUCATION

Ph.D., **Medical Physiology**, Tarbiat Modares University (TMU) - Tehran/ Iran 04/2023

MSc., Medical Physiology, Shahid Beheshti University of Medical Sciences (SBMU), Tehran/ Iran - 09/2016

Bachelor of Science, **Nursing,** Gorgan/Iran- 2004

EMPLOYMENT HISTORY

Assistant professor
Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, February 2025- To present

Research assistant
Tarbiat Modares University, Tehran/ Iran, April 2023 – February 2025

Visiting researcher
Radboud University, Nijmegen/Netherlands, Nov 2020- Aug 2021

WORKSHOPS AND EDUCATIONAL COURSES HELD

- Teaching member of ***Evoked Field Potential Recording Workshop***, Shahid Beheshti University, 2023, Tehran, Iran
- Participant in ***Graphpad Prism statistical software***, 2023, Tehran, Iran
- Participant in virtual ***Analysis of electrical oscillations of the brain,*** 2021, Tarbiat Modares University, Tehran, Iran
- Participant in virtual ***Histological analysis and Immunohistochemistry of myelin and demyelination***, 2021, Tarbiat Modares University, Tehran, Iran
- Participant in virtual ***Evoked Field Potential Recording Workshop***, Tarbiat Modares University, 2021, Tehran, Iran
- Participant in virtual ***LFP signaling recording and Processing***, 2021, Tarbiat Modares University, Tehran, Iran
- Executive and participant member of ***IBRO-VLTP course in Neuroscience***, 2019, Tehran, Iran
- Participant in ***Optogenetics Workshop***, Tarbiat Modares University, 2018, Tehran, Iran
- Participant in ***Patch Clamp practical Workshop***, 2018, Tehran, Iran
- Executive and participant member of of ***1st International Advanced Workshop on Neuroscience IBRO***, 2017, Tehran, Iran
- Teaching member of ***5th Tehran IBRO School of Neuroscience***, 2015, Tehran, Iran
- Executive member of student committee in ***4th congress of Basic and Clinical Neuroscience***, 2015, Tehran, Iran

SEMINARS

- Oral presented entitled "Different effects of tonic and phasic stimulation of Locus Coeruleus on spatial memory" in ***5th International and 26th National Congress of Physiology and Pharmacology***, 2023, Semnan, Iran.
- Oral presented entitled "Differential effects of unilateral patterned electrical stimulation of mouse locus coeruleus on cell proliferation in the dorsal dentate gyrus" in ***11th Basic and Clinical Neuroscience Congress***,2023, Tehran, Iran
- Presented poster entitled "Investigating the effect of inhibition of glial cells on pentylentetrazole induced seizures and synaptic plasticity of hippocampal CA1 neurons in kindled rats" in ***3rd IBRO APRC Chandigarh Neuroscience***, Panjab University, 2018, Chandigarh, India
- Oral presented entitled "Inhibition of Glial cells reduces the progression of seizures induced by chemical kindling in rats" in ***2st International & 23rd Iranian Congress of Physiology & Pharmacology***, 2018, Chabahar, Iran.
- Presented poster" Dorema ammoniacum suppresses epileptic seizures induced by chemical kindling in rats" in ***1st International & 22nd Iranian Congress of Physiology & Pharmacology***, 2015, Kashan, Iran

RESEARCH GRANTS

Name of Funding Organization: IBRO (International Brain Research Organization)

Travel grants for 3rd IBRO-APRC Chandigarh School of Neuroscience, November, 2018

PROFESSIONAL MEMBERSHIPS

- Iranian Society of Physiology and Pharmacology
- Iranian Neuroscience Society

PUBLICATIONS

- Ghamkharinejad G, Mottarlini F, **Tavassoli Z**, Caffino L, Fumagalli F, Homberg JR, Fathollahi Y. Habituation to novel stimuli alters hippocampal plasticity associated with morphine tolerance in male Wistar rats. ***Brain Research***. 2025 Feb 13:149508.
- Rezagholizadeh A, Firoozi A, **Tavassoli Z**, Shojaei A, Hosseinmardi N, Mirnajafi-Zadeh J, Kohlmeier KA, Fathollahi Y. Vitamin D injection into the dorsal-CA1 hippocampus improves short-term sleep deprivation induced cognitive impairment in male rats. ***Heliyon***. 2024 Aug 15;10(15).
- Nejad GG, Mottarlini F, **Tavassoli Z**, Caffino L, Fumagalli F, Homberg JR, Fathollahi Y. Conditioned morphine tolerance promotes neurogenesis, dendritic remodelling and pro-plasticity molecules in the adult rat hippocampus. ***Addiction Biology***. 2024 Mar;29(3):e13377.
- Mohammadi M, **Tavassoli Z**, Anvari S, Javan M, Fathollahi Y. Avoidance and escape conditioning adjust adult neurogenesis to conserve a fit hippocampus in adult male rodents. ***Journal of Neuroscience Research***. 2024 Jan, 102(1):e25291.
- Darvishmolla M, Saeedi N, **Tavassoli Z**, Heysieattalab S, Janahmadi M, Hosseinmardi N. Maladaptive plasticity induced by morphine is mediated by hippocampal astrocytic Connexin-43. ***Life Sciences.*** 2023 Aug, 2:121969.
- **Tavassoli, Z.**, Javan, M., Hosseinmardi, N., Fathollahi, Y. Electrical impulses evoked activity patterns in ventral tegmental area and locus coeruleus modulate endogenous and learning-dependent disparity of cell proliferation along the mouse dentate gyrus. ***IBRO Neuroscience Reports***. 2023 June, 14, 293-307
- **Tavassoli Z.**, Giahi M, Janahmadi M, Hosseinmardi N. Glial cells inhibition affects the incidence of metaplasticity in the hippocampus of Pentylentetrazole-induced kindled rats. ***Epilepsy Behavior***. 2022 October, 9; 135:108907.
- Saeedi, N., Darvishmolla, M., **Tavassoli, Z.**, Davoudi, S., Heysieattalab, S., Hosseinmardi, N., Janahmadi, M. and Behzadi, G., 2021. The role of hippocampal glial glutamate transporter (GLT-1) in morphine-induced behavioral responses. ***Brain and Behavior***, 2021 August, 11(9), p. e2323.
- Khodaverdi, M., Rahdar, M., Davoudi, S., Hajisoltani, R., **Tavassoli, Z**., Ghasemi, Z., Amini, A.E., Hosseinmardi, N., Behzadi, G. and Janahmadi, M., 2021. 5-HT7 receptor activation rescues impaired synaptic plasticity in an autistic-like rat model induced by prenatal VPA exposure. ***Neurobiology of Learning and Memory***, 2021 September, 183, p.107462.