Prof. Yaghoub Fathollahi

Dept. of Medical Physiology,

Faculty of Medical Sciences,

Tarbiat Modares University,

Theran, I.R. Iran

Education:

Undergraduate School: BSc in Biology

Graduate School: MSc in Medical Physiology, TMU, Tehran, I.R. Iran.

Doctoral Degree: Ph.D. in Medical Physiology, TMU, Tehran, I.R. Iran.

Post-doctoral training: Fourth IBRO postdoctoral training workshop in Basic Neuroscience, Hong Kong.

Research Interest: Neural Network Physiology, Synaptic Plasticity and Meta-Plasticity

Awards:

The Seventh Razi Research Festival on Medical Sciences**,**

Research and Education Awards at TMU,

Prof. F. Motamedi's Scientific Award.

Scientific Performance at the International Level:

	WOS	SCOPUS	Google Scholar
ID	**C-1670-2010**	6701492650	
Publication Counts	**150**	**143**	**174**
H-index	**29**	**29**	**35**
Citations	**2500**	**2550**	**3670**

Recent Publications:

Gholami M, Shojaei A, Tavassoli Z, MirNajafi-Zadeh J, **Fathollahi Y.** Theta rhythm stimulation patterns can reverse aberrant hippocampal CA1 synaptic plasticity under challenging conditions: Involvement of extracellular adenosine. Brain Res Bull. 2025 Nov 25; 233: 111658. doi: 10.1016/j.brainresbull.2025.111658. Online ahead of print.PMID: 41308757.

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 Res. 2025 Apr 15; 1853: 149508. doi: 10.1016/j.brainres.2025.149508. Epub 2025 Feb 13.PMID: 39954800.

Alami K, **Fathollahi Y**, Hashemizadeh S, Mosleh M, Semnanian S, Mousavi SY, Azizi H. Microglia-dependent peripheral neuropathic pain in adulthood following adolescent exposure to morphine in male rats. Neuropharmacology. 2025 Feb 1; 263: 110211. doi: 10.1016/j.neuropharm.2024.110211. Epub 2024 Nov 8.PMID: 39521039.

Rezagholizadeh A, Shojaei A, Hosseinmardi N, Mirnajafi-Zadeh J, Kohlmeier KA, **Fathollahi Y.** Astrocytes contribute to the functional differentiation of the hippocampal longitudinal axis during reward and aversion processing in the adult male rat. Neuroscience. 2024 Nov 12; 560: 297-313. doi: 10.1016/j.neuroscience.2024.10.011. Epub 2024 Oct 5.PMID: 39374644.

Anvari S, Javan M, Mirnajafi-Zadeh J, **Fathollahi Y.** Repeated Morphine Exposure Alters Temporoamonic-CA1 Synaptic Plasticity in Male Rat Hippocampus. Neuroscience. 2024, 545: 148-157. doi: 10.1016/j.neuroscience.2024.03.015. PMID: 38513764.

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. Addict Biol. 29 (3): e13377. doi: 10.1111/adb.13377. PMID: 38506630.

Ahmadi M, Rouhi N, **Fathollahi Y**, Shojaei A, Rezaei M, Rostami S, Saab BJ, Mirnajafi-Zadeh J. A Dual Effect of Dopamine on Hippocampal LTP and Cognitive Functions in Control and Kindled Mice. J Neurosci. 2024; 44 (5):e0926212023. doi: 10.1523/JNEUROSCI.0926-21.2023. PMID: 38124004.

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. J Neurosci Res. 2024; 102 (1):e25291. doi: 10.1002/jnr.25291. PMID: 38284841

Mosleh M, Javan M, **Fathollahi Y.** The properties of long-term potentiation at SC-CA1/ TA-CA1 hippocampal synaptic pathways depends upon their input pathway activation patterns. IBRO Neurosci Rep. 2023;14: 358-365. doi: 10.1016/j.ibneur.2023.03.013. eCollection 2023 Jun. PMID: 37020855

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 Neurosci Rep. 2023; 14: 293-307. doi: 10.1016/j.ibneur.2023.03.002. eCollection 2023 Jun. PMID: 37388501