

CURRICULUM VITAE



Leila Dargahi

Date of Birth: 1979

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EDUCATION

1998 - 2004

Graduate Pharmacy Student

School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

2004 - 2010

Postgraduate (Ph.D.) Student

Department of Pharmacology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

2010

Six-Month Research Fellow

Laboratory of Molecular Neuropharmacology, TCIN, Trinity College Dublin, Ireland

ACADEMIC POSITIONS

2011-2016

Assistant Professor

Current

Associate Professor

Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

RESEARCH LINES

Cellular, molecular and behavioral neuroscience, with focus on Alzheimer and Parkinson's diseases.

PUBLICATIONS

1. Asgari Taei A, Nasoohi S, Hassanzadeh G, Kadivar M, **Dargahi L**, Farahmandfar M. Enhancement of angiogenesis and neurogenesis by intracerebroventricular injection of secretome from human embryonic stem cell-derived mesenchymal stem cells in ischemic stroke model. *Biomed Pharmacother.* 2021 May 18;140:111709. doi: 10.1016/j.biopha.2021.111709.
2. Chavoshinezhad S, Zibaii MI, Seyed Nazari MH, Ronaghi A, Asgari Taei A, Ghorbani A, Pandamooz S, Salehi MS, Valian N, Motamedi F, Haghparast A, **Dargahi L**. Optogenetic stimulation of entorhinal cortex reveals the implication of insulin signaling in adult rat's hippocampal neurogenesis. *Prog Neuropsychopharmacol Biol Psychiatry.* 2021 May 6;111:110344. doi: 10.1016/j.pnpbp.2021.110344.
3. Javadpour P, Askari S, Rashidi FS, **Dargahi L**, Ahmadiani A, Ghasemi R. Imipramine alleviates memory impairment and hippocampal apoptosis in STZ-induced sporadic Alzheimer's rat model: Possible contribution of MAPKs and insulin signaling. *Behav Brain Res.* 2021 Jun 25;408:113260. doi: 10.1016/j.bbr.2021.113260. Epub 2021 Mar 26.
4. Iravanpour F, **Dargahi L**, Rezaei M, Haghani M, Heidari R, Valian N, Ahmadiani A. Intranasal insulin improves mitochondrial function and attenuates motor deficits in a rat 6-OHDA model of Parkinson's disease. *CNS Neurosci Ther.* 2021 Mar;27(3):308-319. doi: 10.1111/cns.13609. Epub 2021 Jan 26.
5. Mahboobifard F, **Dargahi L**, Jorjani M, Ramezani Tehrani F, Pourgholami MH. The role of ER α 36 in cell type-specific functions of estrogen and cancer development. *Pharmacol Res.* 2020 Nov 25;163:105307. doi: 10.1016/j.phrs.2020.105307.
6. Izadpanah M, **Dargahi L**, Ai J, Asgari Taei A, Ebrahimi Barough S, Mowla SJ, TavoosiDana G, Farahmandfar M. Extracellular Vesicles as a Neprilysin Delivery System Memory Improvement in Alzheimer's Disease. *Iran J Pharm Res.* 2020 Spring;19(2):45-60. doi: 10.22037/ijpr.2020.112062.13508.
7. Pournajaf S, Valian N, Mohaghegh Shalmani L, Khodabakhsh P, Jorjani M, **Dargahi L**. Fingolimod increases oligodendrocytes markers expression in epidermal neural crest stem cells. *Eur J Pharmacol.* 2020 Oct 15;885:173502. doi: 10.1016/j.ejphar.2020.173502.
8. Safari V, Nategh M, **Dargahi L**, Zibaii ME, Khodaghohi F, Rafiei S, Khatami L, Motamedi F. Individual Subnuclei of the Rat Anterior Thalamic Nuclei Differently affect Spatial Memory and Passive Avoidance Tasks. *Neuroscience.* 2020 Sep 15;444:19-32. doi: 10.1016/j.neuroscience.2020.07.046.
9. Asgari Taei A, **Dargahi L**, Nasoohi S, Hassanzadeh G, Kadivar M, Farahmandfar M. The conditioned medium of human embryonic stem cell-derived mesenchymal stem cells alleviates neurological deficits and improves synaptic recovery in experimental stroke. *J Cell Physiol.* 2020 Jul 30. doi: 10.1002/jcp.29981.

10. Manouchehri N, Khodaghohi F, **Dargahi L**, Ahmadiani A. Mitochondrial Complex I Is an Essential Player in LPS-Induced Preconditioning in Differentiated PC12 Cells. *Iran J Pharm Res.* **2019** Summer;18(3):1445-1455. doi: 10.22037/ijpr.2019.1100711.
11. Niyazi M, Zibaii MI, Chavoshinezhad S, Hamidabadi HG, **Dargahi L**, Bojnordi MN, Alizadeh R, Heravi M, Karimi H, Hosseini M, Sadeghi Malvajardi E, Seyednazari M. Neurogenic differentiation of human dental pulp stem cells by optogenetics stimulation. *J Chem Neuroanat.* **2020** Jun 5;109:101821. doi: 10.1016/j.jchemneu.2020.101821.
12. Salehi MS, Pandamooz S, Safari A, Jurek B, Tamadon A, Namavar MR, Dianatpour M, **Dargahi L**, Azarpira N, Fattahi S, Shid Moosavi SM, Keshavarz S, Khodabandeh Z, Zare S, Nazari S, Heidari M, Izadi S, Poursadeghfard M, Borhani-Haghighi A. Epidermal neural crest stem cell transplantation as a promising therapeutic strategy for ischemic stroke. *CNS Neurosci Ther.* **2020** Apr 12;26(7):670-81. doi: 10.1111/cns.13370.
13. Mohaghegh Shalmani L, Valian N, Pournajaf S, Abbaszadeh F, **Dargahi L**, Jorjani M. Combination therapy with astaxanthin and epidermal neural crest stem cells improves motor impairments and activates mitochondrial biogenesis in a rat model of spinal cord injury. *Mitochondrion.* **2020** Mar 6;52:125-134. doi: 10.1016/j.mito.2020.03.002.
14. Mahboobifard F, Bidari-Zerehpooch F, Davoudi Z, Panahi M, **Dargahi L**, Pourgholami MH, Sharifi G, Izadi N, Jorjani M. Expression patterns of ER α 66 and its novel variant isoform ER α 36 in lactotroph pituitary adenomas and associations with clinicopathological characteristics. *Pituitary.* **2020** Jun;23(3):232-245. doi: 10.1007/s11102-020-01029-z.
15. Pandamooz S, Jafari A, Salehi MS, Jurek B, Ahmadiani A, Safari A, Hassanajili S, Borhani-Haghighi A, Dianatpour M, Niknejad H, Azarpira N, **Dargahi L**. Substrate stiffness affects the morphology and gene expression of epidermal neural crest stem cells in a short term culture. *Biotechnol Bioeng.* **2020** Feb;117(2):305-317. doi: 10.1002/bit.27208
16. Chavoshinezhad S, Mohseni Kouchesfahani H, Salehi MS, Pandamooz S, Ahmadiani A, **Dargahi L**. Intranasal interferon beta improves memory and modulates inflammatory responses in a mutant APP-overexpressing rat model of Alzheimer's disease. *Brain Res Bull.* **2019** Jun 21;150:297-306. doi: 10.1016/j.brainresbull.2019.06.015.
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18. Seyedhosseini Tamijani SM, Beirami E, Ahmadiani A, **Dargahi L**. Thyroid hormone treatment alleviates the impairments of neurogenesis, mitochondrial biogenesis and memory performance induced by methamphetamine. *Neurotoxicology.* **2019** May 7; 74:7-18. doi: 10.1016/j.neuro.2019.05.003.
19. Pandamooz S, Salehi MS, Safari A, Azarpira N, Heravi M, Ahmadiani A, **Dargahi L**. Enhancing the expression of neurotrophic factors in epidermal neural crest stem cells by valproic acid: A potential candidate for combinatorial treatment. *Neurosci Lett.* **2019** Mar 20;704:8-14. doi: 10.1016/j.neulet.2019.03.033. PMID: 30904572

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31. Aminyavari S, Zahmatkesh M, Farahmandfar M, Khodaghali F, **Dargahi L**, Zarrindast MR. Protective role of Apelin-13 on amyloid β 25-35-induced memory deficit; Involvement of autophagy

and apoptosis process. *Prog Neuropsychopharmacol Biol Psychiatry*. **2018**; 89:322-334. doi: 10.1016/j.pnpbp.2018.10.005.

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43. Masoudi A, **Dargahi L**, Abbaszadeh F, Pourgholami MH, Asgari A, Manoochehri M, Jorjani M. Neuroprotective effects of astaxanthin in a rat model of spinal cord injury. *Behav Brain Res*. **2017**; 329:104-110. doi: 10.1016/j.bbr.2017.04.026. PMID: 28442361

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NATIONAL AND INTERNATIONAL CONFERENCES

1. The 2nd Parkinson's disease and Movement Disorders Congress and the 2nd MDS DWEP. 2019, Tehran: **Dargahi L**. Basic science research toward precision medicine in Parkinson's disease. *Oral presentation*
2. The 20th Royan International Twin Congress, 2019, Tehran: **Dargahi L**, Chavoshinezhad S. Interferon beta: a potential candidate for the treatment of Alzheimer's disease. *Oral presentation*
3. 23rd Iranian Congress of Physiology and Pharmacology, 2017, Chabahar: **Dargahi L**, Zibaii MI, Ronaghi A, Chavoshinezhad S, Pandamooz S, Salehi MS, Ghorbani A, Motamdi F, Ahmadiani A. Application of Optogenetics in the Study of Neurogenesis. *Oral presentation*

4. 6th Basic and Clinical Neuroscience Congress, 2017, Tehran: **Dargahi L**, Zibaii MI, Ronaghi A, Nazari MH, Haghparast A, Motamedi F. Using optogenetics for targeted neuromodulation. *Oral presentation*
5. 22nd Iranian Congress of Physiology and Pharmacology, 2015, Kashan: **Dargahi L**, Mohammad Ahmadian-Attari MM, Ahmadiani A. Alzheimer's disease therapeutic approaches; current advances and future directions. *Oral presentation*
6. 8th International Association of Neurorestoratology Congress, 2015, Tehran: Pandamooz S, Nabiuni M, Ahmadiani A, **Dargahi L**. Modeling traumatic injury in organotypic spinal cord slice culture obtained from adult rat. *Oral presentation*
7. 8th International Association of Neurorestoratology Congress, 2015, Tehran: Fakharnia F, Khodaghali F, **Dargahi L**, Ahmadiani A. Global cerebral ischemia induces necroptotic cell death in hippocampal and striatal neurons. *Oral presentation*
8. 6th Canadian Stroke Congress, 2015, Toronto: Fakharnia F, Khodaghali F, **Dargahi L**, Ahmadiani A. Inhibition of autophagy by Bafilomycin-a1 attenuates necroptotic cell death in global cerebral ischemia-reperfusion model. *Poster presentation*
9. 4th Basic and Clinical Neuroscience Congress, 2015, Tehran: Pandamooz S, Ahmadiani A, Nabiuni M, **Dargahi L**. Valproic Acid preserves Motoneurons following contusion in organotypic spinal cord slice culture. *Poster presentation*
10. 4th Basic and Clinical Neuroscience Congress, 2015, Tehran: **Dargahi L**, Zibaii MI, Latifi H, Haghparast A, Janahmadi M, Motamedi F, Ahmadiani A. Opsin gene delivery and expression; behavioral and electrophysiological proof. *Oral presentation*
11. 4th Basic and Clinical Neuroscience Congress, 2015, Tehran: Heravi M, Morshedi D, **Dargahi L**. Cytotoxic assessment of alpha-synuclein aggregates on primary hippocampal neurons compared to PC12 and SHS-Y5Y cell lines: a reliable model of synucleinopathies. *Oral presentation*
12. 4th Basic and Clinical Neuroscience Congress, 2015, Tehran: Zibaii MI, Latifi H, **Dargahi L**. Fabrication and application of optic and optoelectronic devices for optogenetics. *Oral presentation*
13. 3rd Basic and Clinical Neuroscience Congress, 2013, Tehran: Siroosi Sh, Manaheji H, **Dargahi L**. GABA-transporter GAT-1 inhibition attenuates the expression of morphine antinociceptive tolerance. *Oral presentation*
14. 4th International Symposium on Molecular Technology (Biotechnology in Progress), 2014, Tehran: Bakhtiary E, Ahmadian-Attari MM, Salehi P, Khallaghi B, **Dargahi L**, Kamalinejad M, Ahmadiani A. Protective effect of Maviz (a specific kind of dried grape) against beta amyloid peptide induced-memory impairment: role of non-polyphenolic compounds. *Poster presentation*
15. 2nd Basic and Clinical Neuroscience Congress, 2013, Tehran: Allahverdi F, Abolfathi N, Dargahi L. Measurement of biomechanical properties of PC12 neurites by using innovative MEMS device. *Poster presentation*
16. 2nd Basic and Clinical Neuroscience Congress, 2013, Tehran: Nikseresht S, Dargahi L, Khodaghali F. Apoptosis and neuroinflammation counteraction in the hippocampus neuron loss in Lipopolysaccharide (LPS)-injected rats: A time dependent study. *Poster presentation*

17. 45th European Brain and Behavior Society Meeting, 2013, Munich: Nasoohi S, **Dargahi L**, Enayatifard L, Rostami F, Ahmadiani A. Dual Role of PPAR- γ in Induction and Expression of Behavioral Sensitization to Cannabinoid Receptor Agonist WIN55,212-2. *Poster presentation*
18. 21st Iranian Congress of Physiology and Pharmacology, 2013, Tabriz: **Dargahi L**, Asle-Rousta M, Kolahdooz Z, Omidbakhsh R, Hemmati L, Ahmadiani A. Therapeutic potential of S1P1 receptors in Alzheimer's disease. *Oral presentation*
19. 20th Iranian Congress of Physiology and Pharmacology, 2011, Hamedan: Enayatifard L, Rostami F, Oryan Sh, Ahmadiani A, **Dargahi L**. PPAR γ activity is necessary for the development of behavioral sensitization to WIN55212-2 but plays an inhibitory role in the expression phase. *Poster presentation*
20. 20th Iranian Congress of Physiology and Pharmacology, 2011, Hamedan: Rostam F, Oryan Sh, Ahmadiani A, **Dargahi L**. Morphine preconditioning exerts anti-inflammatory and protective roles in Lipopolysaccharide induced neuroinflammation and memory deficit. *Poster presentation*
21. 20th Iranian Congress of Physiology and Pharmacology, 2011, Hamedan: Asle Rousta M, Kolahdooz Z, Oryan Sh, Ahmadiani A, **Dargahi L**. FTY720 (Fingolimod) attenuates the A β -induced neuroinflammation and spatial memory deficit in an animal model of Alzheimer's disease. *Oral presentation*
22. 20th Iranian Congress of Physiology and Pharmacology, 2011, Hamedan: Kolahdooz Z, Asle Rousta M, Oryan Sh, Ahmadiani A, **Dargahi L**. Lipopolysaccharide induced neuronal injury and memory deficit can be reversed by sphingosine-1-phosphate receptor modulators. *Poster presentation*
23. 1st National Congress of Neuroscience, 1389 (2011), Golestan University of Medical Sciences, Gorgan, Iran: Nasiraei-Moghadam Sh, Sherafat A, Safari M-Sh, Ahmadiani A and **Dargahi L**. Sexual Maturation Repairs Prenatal Morphine Exposure Induced Memory Deficit in Male but not Female Rats. *Oral presentation*
24. 7th FENS Forum of European neuroscience, July 3-7, 2010, Amsterdam: **Dargahi L**, Nasiraei-Moghadam Sh, Abdi A, Khalaj L, Moradi F, Ahmadiani A. COX-1 activity precedes the COX-2 induction in A β induced neuroinflammation. *Poster presentation*
25. 19th Iranian Congress of Physiology and Pharmacology, 2009, Tehran: Nasiraei-Moghadam Sh, Kazeminezhad B, **Dargahi L**, Ahmadiani A. Maternal oral consumption of morphine increases bax/bcl-2 ratio and caspase-3 activity during early neural system development in rat embryos. *Poster presentation*
26. 19th Iranian Congress of Physiology and Pharmacology, 2009, Tehran: Khalaj L, Peirovi H, Khodaghali F, Abdi A, **Dargahi L**, Mohagheghi F, Ahmadiani A. Estradiol neuroprotection against spinal cord ischemia-reperfusion; focus on cyclooxygenase, heat shock protein 70 and cleaved caspase 3. *Poster presentation*
27. 19th Iranian Congress of Physiology and Pharmacology, 2009, Tehran: Abdi A, Sadraie H, **Dargahi L**, Khalaj L, Ahmadiani A. Apoptosis inhibition can be threatening in A β -induced neuroinflammation, through promoting cell proliferation. *Poster presentation*
28. The 9th International Conference and Exhibition on Drug Discovery, 2006, Basel: Behravan J, Ramezani M, **Dargahi L**, Abaei MR. Larvicidal Activity of *Thymus transcaspicus* essential oil against *Anopheles stephensi* (Celia). *Poster presentation*

TEACHING EXPERIENCES

2016: Teaching cell culture basics, gene delivery, immunohistochemistry and optogenetic techniques at the 5th Tehran IBRO School of Neuroscience.

2014: Teaching organotypic spinal cord slice culture and immunohistochemistry techniques at the 4th Tehran IBRO School of Neuroscience.

2013 till now: Teaching neuro-histochemical methods to PhD students of neuroscience at Neuroscience Research Center, Shahid Beheshti University of Medical Sciences.

2012 and 2013: Teaching molecular cloning and basics of animal cell culture techniques at the 2nd and 3rd Tehran IBRO School of Neuroscience.

2011-2012: Teaching pharmacology to medical, dentistry, obstetrics and anesthesiology students at Qazvin University of Medical Sciences.

2011 till now: Teaching neuropharmacology, neurohistochemistry and research methodology to PhD students of neuroscience at Neuroscience Research Center, Shahid Beheshti University of Medical Sciences.

PROFESSIONAL MEMBERSHIPS

1. Editor-in-Chief for the Journal, Physiology and Pharmacology
2. Member of the Board Committee of Iranian Society of Physiology and Pharmacology (ISPP)
3. Member of the Iranian Medical Council
4. Member of the Iranian Pharmaceutical Association-IphA
5. Member of the Iranian Neuroscience Society