

CURRICULUM VITAE

Leila Dargahi

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EDUCATION

2010

Six-Month Research Fellow
Laboratory of Molecular Neuropharmacology, TCIN, Trinity College Dublin, Ireland

2004 - 2010

Postgraduate (Ph.D.) Student
Department of Pharmacology, School of Medicine, Shahid Beheshti University of Medical Sciences,
Tehran, Iran

1998 - 2004

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

EMPLOYMENT HISTORY

2023 March to date

Professor
Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

2016 Oct-2023 March

Associate Professor
Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

2011 Feb-2016 Oct

Assistant Professor
Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

SENIOR PROFESSIONAL WORKING

Editor-in-Chief for the Journal, Physiology and Pharmacology, <http://ppj.phypha.ir/> (23/10/2019 to date)

Associate editor in **Iranian Journal of Pharmaceutical Research**, www.brief.land/ijpr (April 2022 to date)

Secretary of the field of “Scientific Thinking in Basic Sciences” - Scientific Olympiad of Iranian Medical Students (2019-2021)

Member of the **Board Committee** of the Iranian Society of Physiology and Pharmacology (2017 to 2021)

Secretary of the **Board Committee** of the Iranian Society of Physiology and Pharmacology (2021 to date)

RESEARCH LINES

Applying cellular, molecular and behavioral approaches to study **Alzheimer and Parkinson’s diseases** with focus on:

- modeling of neurodegenerative and neuro-inflammatory phenotypes in vitro and in vivo,
- determination of the pathophysiological mechanisms,
- identification and characterization of novel therapies at both preclinical and clinical levels

PUBLICATIONS

1. Rezapour M, Akbari M, **Dargahi L**, Zibaii MI, Shahbazi A. The Auditory Brainstem Response (ABR) Test, Supplementary to Behavioral Tests for Evaluation of the Salicylate-Induced Tinnitus. *Indian J Otolaryngol Head Neck Surg.* **2023** Apr;75(Suppl 1):6-15. doi: 10.1007/s12070-022-03117-x
2. Abedi A, Foroutan T, Mohaghegh Shalmani L, **Dargahi L**. Sex-specific effects of high-fat diet on rat brain glucose metabolism and early-onset dementia symptoms. *Mech Ageing Dev.* **2023** Apr;211:111795. doi: 10.1016/j.mad.2023.111795.
3. Pandamooz S, Jurek B, Dianatpour M, Haerteis S, Limm K, Oefner PJ, **Dargahi L**, Borhani-Haghighi A, Miyan JA, Salehi MS. The beneficial effects of chick embryo extract preconditioning on hair follicle stem cells: A promising strategy to generate Schwann cells. *Cell Prolif.* **2023**: e13397. doi: 10.1111/cpr.13397.
4. Seyedhosseini Tamijani SM, Beirami E, Dargahi S, Ahmadiani A, **Dargahi L**. Neuroprotective effect of thyroid hormones on methamphetamine-induced neurotoxicity via cell surface receptors. *Neurosci Lett.* **2023**; 794:137009. doi: 10.1016/j.neulet.2022.137009.
5. Intranasal interferon-beta alleviates anxiety and depressive-like behaviors by modulating microglia polarization in an Alzheimer's disease model. Farhangian M, Azarafrouz F, Chavoshinezhad S, **Dargahi L**. *Neurosci Lett.* **2023**; 792:136968. doi: 10.1016/j.neulet.2022.136968.
6. Babaei F, Mirzababaei M, **Dargahi L**, Shahsavari Z, Nassiri-Asl M, Karima S. Preventive Effect of *Saccharomyces boulardii* on Memory Impairment Induced by Lipopolysaccharide in Rats. *ACS Chem Neurosci.* **2022**;13(22):3180-3187. doi: 10.1021/acchemneuro.2c00500.
7. Mahboobifard F, Pourgholami MH, Jorjani M, **Dargahi L**, Amiri M, Sadeghi S, Tehrani FR. Estrogen as a key regulator of energy homeostasis and metabolic health. *Biomed Pharmacother.* **2022**;156:113808. doi: 10.1016/j.biopha.2022.113808.

8. Fakhri S, Abbaszadeh F, **Dargahi L**, Pouriran R, Jorjani M. Astaxanthin ameliorates serum level and spinal expression of macrophage migration inhibitory factor following spinal cord injury. *Behav Pharmacol.* **2022**; 33(7):505-512. doi: 10.1097/FBP.0000000000000698.
9. Askari S, Javadpour P, Rashidi FS, **Dargahi L**, Kashfi K, Ghasemi R. Behavioral and Molecular Effects of Thapsigargin-Induced Brain ER- Stress: Encompassing Inflammation, MAPK, and Insulin Signaling Pathway. *Life (Basel).* **2022**; 12(9):1374. doi: 10.3390/life12091374.
10. Izadi MS, Eskandari F, Binayi F, Salimi M, Rashidi FS, Hedayati M, **Dargahi L**, Ghanbarian H, Zardooz H. Oxidative and endoplasmic reticulum stress develop adverse metabolic effects due to the high-fat high-fructose diet consumption from birth to young adulthood. *Life Sci.* **2022**; 309:120924. doi: 10.1016/j.lfs.2022.120924.
11. Asgari Taei A, Khodabakhsh P, Nasoohi S, Farahmandfar M, **Dargahi L**. Paracrine Effects of Mesenchymal Stem Cells in Ischemic Stroke: Opportunities and Challenges. *Mol Neurobiol.* **2022**; 59(10):6281-6306. doi: 10.1007/s12035-022-02967-4.
12. Asgari Taei A, **Dargahi L**, Khodabakhsh P, Kadivar M, Farahmandfar M. Hippocampal neuroprotection mediated by secretome of human mesenchymal stem cells against experimental stroke. *CNS Neurosci Ther.* **2022**; 28(9):1425-1438. doi: 10.1111/cns.13886.
13. Azarafrouz F, Farhangian M, Chavoshinezhad S, Dargahi S, Nassiri-Asl M, **Dargahi L**. Interferon beta attenuates recognition memory impairment and improves brain glucose uptake in a rat model of Alzheimer's disease: Involvement of mitochondrial biogenesis and PI3K pathway. *Neuropeptides.* **2022**; 95:102262. doi: 10.1016/j.npep.2022.102262.
14. Bazrgar M, Khodabakhsh P, **Dargahi L**, Mohagheghi F, Ahmadiani A. MicroRNA modulation is a potential molecular mechanism for neuroprotective effects of intranasal insulin administration in amyloid beta oligomer induced Alzheimer's like rat model. *Exp Gerontol.* **2022**; 164:111812. doi: 10.1016/j.exger.2022.111812.
15. Babaei F, Mirzababaei M, Mohammadi G, **Dargahi L**, Nassiri-Asl M. *Saccharomyces boulardii* attenuates lipopolysaccharide-induced anxiety-like behaviors in rats. *Neurosci Lett.* **2022**; 778:136600. doi: 10.1016/j.neulet.2022.136600.
16. Salari M, Etemadifar M, **Dargahi L**, Valian N, Rezaee M. Manganese-induced parkinsonism responsive to intranasal insulin: A case report. *Clin Case Rep.* **2022**; 10(3):e05562. doi: 10.1002/ccr3.5562. eCollection 2022 Mar.
17. Tamijani SMS, Valian N, Heravi M, Ahmadiani A, Beirami E, **Dargahi L**. Implication of thyroid hormone receptors in methamphetamine neurocognitive effects. *Neurotoxicology.* **2022**; S0161-813X(22)00039-0. doi: 10.1016/j.neuro.2022.03.003.
18. Pournajaf S, **Dargahi L**, Javan M, Pourgholami MH. Molecular Pharmacology and Novel Potential Therapeutic Applications of Fingolimod. *Front Pharmacol.* **2022**; 13:807639. doi: 10.3389/fphar.2022.807639.
19. Valian N, Heravi M, Ahmadiani A, **Dargahi L**. Comparison of Rat Primary Midbrain Neurons Cultured in DMEM/F12 and Neurobasal Mediums. *Basic Clin Neurosci.* **2021**; 12(2):205-212. doi: 10.32598/bcn.12.2.1568.1.

20. Khodabakhsh P, Asgari Taei A, Parvardeh S, Pournajaf S, **Dargahi L**. A review on the role of prolyl isomerase Pin1 in Alzheimer's disease. *Ir J Physiol Pharmacol*. **2022**; 6: 28-42 (full text in Persian)
21. Rafiei Sh, Khodaghali F, Motamedi F, **Dargahi L**. Peroxisome biogenesis factor 5 controlled histone deacetylase 6 and Sirtuin1 expression and modulated mitochondrial biogenesis in rat dorsal hippocampus. *Physiol Pharmacol* **2021**; 25(4): 341-352, DOI: 10.52547/phypha.25.4.10
22. Khodabakhsh P, Bazrgar M, **Dargahi L**, Mohagheghi F, Taei AA, Parvardeh S, Ahmadiani A. Does Alzheimer's disease stem in the gastrointestinal system? *Life Sci*. **2021**:120088. doi: 10.1016/j.lfs.2021.120088.
23. Salari M, Lang AE, **Dargahi L**, Habibi AH, Etemadifar M. Irreversible extreme freezing of gait after dopamine agonist withdrawal. *Clin Case Rep*. **2021**; 9(8):e04712. doi: 10.1002/ccr3.4712.
24. Khodabakhsh P, Pournajaf S, Mohaghegh Shalmani L, Ahmadiani A, **Dargahi L**. Insulin Promotes Schwann-Like Cell Differentiation of Rat Epidermal Neural Crest Stem Cells. *Mol Neurobiol*. **2021**; 58(10):5327-5337. doi: 10.1007/s12035-021-02423-9.
25. Khodabakhsh P, Asgari Taei A, Mohseni M, Bahrami Zanzanbar D, Khalili H, Masoumi K, Haji Abbas Shirazi A, **Dargahi L**. Vasoactive Peptides: Role in COVID-19 Pathogenesis and Potential Use as Biomarkers and Therapeutic Targets. *Arch Med Res*. **2021**; S0188 4409(21)00122-3. doi: 10.1016/j.arcmed.2021.05.007.
26. 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**;140:111709. doi: 10.1016/j.biopha.2021.111709.
27. 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**; 111:110344. doi: 10.1016/j.pnpbp.2021.110344.
28. 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**; 408:113260. doi: 10.1016/j.bbr.2021.113260. Epub 2021 Mar 26.
29. 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**; 27(3):308-319. doi: 10.1111/cns.13609.
30. Zibaii MI, Layeghi A, **Dargahi L**, Haghparast A, Frazao O. Optical Recording of Neural Activity Using A Focused Ion Beam Milled Fiber Optic Fabry-Perot. *Journal of Science and Technological Researches* **2020**; 2 (4), e-ISSN 2456-7701. doi: 10.51514/JSTR.2.4.2020.6-12.
31. 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**; 163:105307. doi: 10.1016/j.phrs.2020.105307.

32. Izadpanah M, **Dargahi L**, Ai J, Asgari Taei A, Ebrahimi Barough S, Mowla SJ, Tavvoosi Dana G, Farahmandfar M. Extracellular Vesicles as a Nephilysin Delivery System Memory Improvement in Alzheimer's Disease. *Iran J Pharm Res.* **2020**; 19(2):45-60. doi: 10.22037/ijpr.2020.112062.13508.
33. 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**; 885:173502. doi: 10.1016/j.ejphar.2020.173502.
34. 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**; 444:19-32. doi: 10.1016/j.neuroscience.2020.07.046.
35. 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.
36. 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**;18(3):1445-1455. doi: 10.22037/ijpr.2019.1100711.
37. Niyazi M, Zibaii MI, Chavoshinezhad S, Hamidabadi HG, **Dargahi L**, Bojnordi MN, Alizadeh R, Heravi M, Karimi H, Hosseini M, Sadeghi Malvajerdi E, Seyednazari M. Neurogenic differentiation of human dental pulp stem cells by optogenetics stimulation. *J Chem Neuroanat.* **2020**;109:101821. doi: 10.1016/j.jchemneu.2020.101821.
38. 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**;26(7):670-81. doi: 10.1111/cns.13370.
39. 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**;52:125-134. doi: 10.1016/j.mito.2020.03.002.
40. 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**;23(3):232-245. doi: 10.1007/s11102-020-01029-z.
41. 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**;117(2):305-317. doi: 10.1002/bit.27208
42. 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**;150:297-306. doi: 10.1016/j.brainresbull.2019.06.015.

43. Chavoshinezhad S, Mohseni Kouchesfahani H, Ahmadiani A, **Dargahi L**. Interferon beta ameliorates cognitive dysfunction in a rat model of Alzheimer's disease: Modulation of hippocampal neurogenesis and apoptosis as underlying mechanism. *Prog Neuropsychopharmacol Biol Psychiatry*. **2019**; 94:109661. doi: 10.1016/j.pnpbp.2019.109661
44. 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**; 74:7-18. doi: 10.1016/j.neuro.2019.05.003.
45. 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**;704:8-14. doi: 10.1016/j.neulet.2019.03.033. PMID: 30904572
46. Valian N, Heravi M, Ahmadiani A, **Dargahi L**. Effect of methamphetamine on rat primary midbrain cells; mitochondrial biogenesis as a compensatory response. *Neuroscience*. **2019**;406:278-289. doi: 10.1016/j.neuroscience.2019.03.016. PMID: 30885640
47. Javadpour P, **Dargahi L**, Ahmadiani A, Ghasemi R. To be or not to be: PP2A as a dual player in CNS functions, its role in neurodegeneration, and its interaction with brain insulin signaling. *Cell Mol Life Sci*. **2019**. doi: 10.1007/s00018-019-03063-y. Review.PMID: 30874837
48. Mohammadi G, **Dargahi L**, Naserpour T, Mirzanejad Y, Alizadeh SA, Peymani A, Nassiri-Asl M. Probiotic mixture of *Lactobacillus helveticus* R0052 and *Bifidobacterium longum* R0175 attenuates hippocampal apoptosis induced by lipopolysaccharide in rats. *Int Microbiol*. **2019**; 22(3):317-323. doi: 10.1007/s10123-018-00051-3. PMID: 30810993
49. Karimi-Haghighi S, **Dargahi L**, Haghparast A. Cannabidiol modulates the expression of neuroinflammatory factors in stress- and drug-induced reinstatement of methamphetamine in extinguished rats. *Addict Biol*. **2019**. doi: 10.1111/adb.12740. PMID: 30793820
50. Sayed Javad Javaheri ES, Bigdeli MR, Zibaii MI, **Dargahi L**, Pouretamad HR. Optogenetic Stimulation of the Anterior Cingulate Cortex Ameliorates Autistic-Like Behaviors in Rats Induced by Neonatal Isolation, Caudate Putamen as a Site for Alteration. *Neuromolecular Med*. **2019** Feb 19. doi: 10.1007/s12017-019-08526-w. PMID: 30784006
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52. Pandamooz S, Salehi MS, Zibaii MI, Safari A, Nabiuni M, Ahmadiani A, **Dargahi L**. Modeling traumatic injury in organotypic spinal cord slice culture obtained from adult rat. *Tissue Cell*. **2019** Feb;56:90-97. doi: 10.1016/j.tice.2019.01.002. PMID: 30736910
53. Salehi MS, Borhani-Haghighi A, Pandamooz S, Safari A, **Dargahi L**, Dianatpour M, Tanideh N. Dimethyl fumarate up-regulates expression of major neurotrophic factors in the epidermal neural crest stem cells. *Tissue Cell*. **2019** Feb;56:114-120. doi: 10.1016/j.tice.2019.01.004. Epub 2019 Jan 25. PMID: 30736899

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55. Fakhri S, **Dargahi L**, Abbaszadeh F, Jorjani M. Effects of astaxanthin on sensory-motor function in a compression model of spinal cord injury: Involvement of ERK and AKT signalling pathway. *Eur J Pain.* **2018**. doi: 10.1002/ejp.1342
56. Mohammadi G, **Dargahi L**, Peymani A, Mirzanejad Y, Alizadeh SA, Naserpour T, Nassiri-Asl M. The Effects of Probiotic Formulation Pretreatment (*Lactobacillus helveticus* R0052 and *Bifidobacterium longum* R0175) on a Lipopolysaccharide Rat Model. *J Am Coll Nutr.* **2018**:1-9. doi: 10.1080/07315724.2018.1487346.
57. Aminyavari S, Zahmatkesh M, Farahmandfar M, Khodaghohi 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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61. Valian N, Ahmadiani A, **Dargahi L**. Does Repeated Methamphetamine Exposure at Different Regimens Cause Parkinsonian-Like Behavior in Rats? *Iran J Pharm Res.* **2018**; 17(2):543-552.
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65. Pandamooz S, Salehi MS, Zibaii MI, Ahmadiani A, Nabiuni M, **Dargahi L**. Epidermal neural crest stem cell-derived glia enhance neurotrophic elements in an ex vivo model of spinal cord injury. *J Cell Biochem.* **2018**; 119(4):3486-3496. doi: 10.1002/jcb.26520. PMID: 29143997
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114. Dutta P, **Dargahi L**, Ivankovic D, Healy LM, Dev KK. Trafficking of the GPR37/Pael receptor by interacting proteins. *Irish Journal of Medical Science.* **2011**; 180: 30.
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mediated suppression of COX-2. *Neurochem Int.* **2010**; 57(8):958-68. doi: 10.1016/j.neuint.2010.10.002. PMID: 20946929

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118. Khalaj L, Peirovi H, Khaodaghali F, Abdi A, **Dargahi L**, Mohagheghi F, Ahmadiani A. Acute Administration of Estradiol Protects against Spinal Ischemic-Reperfusion Injury in Male Rabbits. *Physiol Pharmacol* **2010**, 14(1): 1-11 (full text in Persian)
119. Dutta P, Deb D, **Dargahi L**, Ivankovic D, Dev KK. The GPR37/Pael receptor; Finding a way to the cell surface. *Drug discovery*, **2010**; 7: 36-40.

NATIONAL AND INTERNATIONAL CONFERENCES

1. First International Congress of Cancer Genomics, 2023, Tehran: Bazrgar M, Ahmadi M, Mirmotalebi Sohi SA, Azimi P, **Dargahi L**, Zali H, Ahmadiani A. Construction and Analysis of a lncRNA-miRNA-mRNA Network Based on Competitive Endogenous RNA Reveal Prognostic Biomarkers for Glioblastoma Multiforme (*Poster presentation*)
2. IDF Congress 2022, Lisbon: Izadi M, Eskandari F, Binayi F, **Dargahi L**, Zardooz H. High-Fat-Fructose Feeding from Birth to Adulthood Impaired Glucose Tolerance and Insulin Secretion and Content in Rats (*Poster presentation*)
3. Alzheimer's Association International Conference 2022, San Diego: Sedghizadeh MJ, Asgari Taei A, Karimani F, **Dargahi L**, Aghajan H, Abolghasemi Dehaqani MR. Theta-Gamma Phase-Amplitude Coupling Deficit in Streptozotocin AD Rat Model (*Online poster presentation*)
4. 18th Congress on Stem Cell Biology and Technology, 2022, Tehran: Abedi Koshalshahi A, Foroutan T, Mohaghegh Shalmani L, **Dargahi L**. Sex Differences in The Effect of Long-Term High-Fat Diet on Brain Glucose Metabolism and Expression of Alzheimer's Related Genes in Wistar Rats (*Poster presentation*)
5. 23th Congress on Reproductive Biomedicine, 2022, Tehran: Abedi Koshalshahi A, Foroutan T, Mohaghegh Shalmani L, **Dargahi L**. Sex-Specific Effects of High-fat Diet on Insulin Resistance and Anxiety-Like Behavior in Wistar Rats (*Poster presentation*)
6. The 3rd Parkinson's disease and Movement Disorders Congress, 2021, Tehran: **Dargahi L**. Update on Pharmacological Management of Parkinson's disease (*Invited online oral presentation*)
7. 25th Iranian and 4th International Congress of Physiology and Pharmacology (FAOPS Satellite Congress), 2021, Tehran: Bazrgar M, Khodabakhsh P, **Dargahi L**, Mohagheghi F, Ahmadiani A. Modulation of MicroRNA-132 as a Potential Molecular Mechanism Involved in the Beneficial Effects

of Intranasal Insulin Administration in the Soluble Amyloid beta Oligomer Induced Alzheimer's Disease (*Online poster presentation*)

8. 25th Iranian and 4th International Congress of Physiology and Pharmacology (FAOPS Satellite Congress), 2021, Tehran: Mahboobifard F, **Dargahi L**, Jorjani M, Ramezani Tehrani F, Pourgholami MH. Biological and Clinical Significance of ER-A36 in Estrogen-Responsive and Unresponsive Tissues/Tumors (*Online poster presentation*)
9. 25th Iranian and 4th International Congress of Physiology and Pharmacology (FAOPS Satellite Congress), 2021, Tehran: Chavoshinezhad S, **Dargahi L**, Zibaii MI, Seyed Nazari MH, Ronaghi A, Pandamooz S, Salehi MS, Motamedi F, Haghparast A. Optogenetic stimulation of medial entorhinal cortex induces mitochondrial biogenesis and promotes neurogenesis and adult rats' hippocampus. (*Online poster presentation*)
10. 17th Congress on Stem Cell Biology and Technology, 2021, Tehran: Chavoshinezhad S, **Dargahi L**, Azarafrouz F, Farhangian M, Dargahi S, Nassiri-Asl M. Involvement of Nerve Growth Factor and Glial Cell Derived Neurotrophic Factor in Neurogenic and Prosurvival Effects of Interferon Beta in Alzheimer's Disease (*Online poster presentation*)
11. 17th Congress on Stem Cell Biology and Technology, 2021, Tehran: Azarafrouz F, Farhangian M, Chavoshinezhad S, **Dargahi L**. Interferon Beta Attenuates Tauopathy and Recognition Memory Deficits in a Rat Model of Alzheimer's disease: Activation of PI3K Signaling Pathway as Underlying Mechanism (*Online poster presentation*)
12. 24th Iranian and 3rd International Congress of Physiology and Pharmacology (FAOPS Satellite Congress), 2019, Tehran: **Dargahi L**. The therapeutic potential of interferon beta in Alzheimer's disease (*Panel member and oral presentation*)
13. 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 (*Invited oral presentation*)
14. 15th Congress on Stem Cell Biology and Technology, 2019, Tehran: **Dargahi L**, Chavoshinezhad S. Interferon beta, a potential candidate for the treatment of Alzheimer's disease (*Invited oral presentation*)
15. 14th Congress on Stem Cell Biology and Technology, 2018, Tehran: Pandamooz S, Salehi MS, **Dargahi L**. Using Epidermal Neural Crest Stem Cells in Experimental Models of Spinal Cord Injury (*Oral presentation*)
16. 14th Congress on Stem Cell Biology and Technology, 2018, Tehran: Asgari Taei A, Farahmandfar M, Hassanzadeh GH, **Dargahi L**, Nasoohi S, Kadivar M. Neuroprotective Effect of Mesenchymal Stem Cells Derived from Human Embryonic Stem Cell –Conditioned Medium on Ischemic Stroke Model (*Poster presentation*)
17. 23rd Iranian Congress of Physiology and Pharmacology, 2017, Chababar: **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*)
18. 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*)

19. 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*)
20. 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*)
21. 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*)
22. 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*)
23. 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*)
24. 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*)
25. 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*)
26. 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*)
27. 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*)
28. 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*)
29. 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*)
30. 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*)
31. 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*)

32. 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*)
33. 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*)
34. 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*)
35. 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*)
36. 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*)
37. 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*)
38. 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*)
39. 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*)
40. 19th Iranian Congress of Physiology and Pharmacology, 2009, Tehran: Khalaj L, Peirovi H, Khodagholi 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*)
41. 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*)
42. 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

2011 to date

Teaching neuropharmacology, neuro-histochemical methods, and research methodology to PhD students of neuroscience at Neuroscience Research Center, Shahid Beheshti University of Medical Sciences.

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

WORKSHOPS AND EDUCATIONAL COURSES HELD

Fourth Optogenetics Workshop, January 9, 2019, Tehran

Theoretical and practical workshop on “optogenetics in neuroscience research”

Third Optogenetics Workshop, November 20-21, 2018, Tehran

Theoretical and practical workshop on “optogenetics in neuroscience research”

Second Optogenetics Workshop, October 31 - November 1, 2017, Tehran

Theoretical and practical workshop on “optogenetics in neuroscience research”

IBRO-APRC Tehran Advanced School of Neuroscience, April 29 - May 11, 2017

Teaching competent cells preparation, transformation, plasmid extraction, transfection, lentivirus production, stereotaxic virus injection, intranasal drug treatment, water maze test, brain tissue sampling, culturing primary neurons, RNA extraction, cDNA synthesis, primer design for qRT-PCR, real-time PCR, immunocytochemistry, and analysis of molecular, cellular and behavioral data

First Optogenetics Workshop, February 3, 2016, Tehran

Theoretical and practical workshop on “optogenetics in neuroscience research”

5th Tehran IBRO School of Neuroscience, April 30 - May 11, 2016

Teaching cell culture basics, gene delivery, immunohistochemistry and optogenetic techniques

4th Tehran IBRO School of Neuroscience, October 17-28, 2014

Teaching organotypic spinal cord slice culture and immunohistochemistry techniques

3rd Tehran IBRO School of Neuroscience, October 26 - November 6, 2013

Teaching molecular cloning and basics of animal cell culture techniques

2nd Tehran IBRO School of Neuroscience, May 12-23, 2012

Teaching molecular cloning and basics of animal cell culture techniques

EDUCATIONAL COURSES PARTICIPATED IN THE LAST 3 YEARS

Comprehensive course of virtual education and e-teacher training

112 hours in January 16 - August 18, 2021

Ethics in research

40 hours in December 2020

PROFESSIONAL MEMBERSHIPS

1. IRI Medical Council
2. Iran Pharmacists Association
3. Iranian Society of Physiology and Pharmacology, member of IUPHAR
4. Iranian Neuroscience Society