

Majid Motaghinejad

Chronic Respiratory Disease Research Center, National Research Institute of Tuberculosis and Lung Diseases (NRITLD), Shahid Beheshti University of Medical Sciences, Tehran, Iran.

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Education

- Postdoc: (Iran Univ. Med. Sci.): **Thesis:** Upregulation of CREB/BDNF and Akt/GSK3 signaling pathways mediates neuroprotective effects of minocycline against methylphenidate-induced neurodegeneration in dentate gyrus and CA1 regions of rat hippocampus (2021).
- Ph.D. of Medical Pharmacology (Iran Univ. Med. Sci.). **Thesis:** Study of changes in CREB level on methylphenidate-induced neurodegeneration following topiramate administration in hippocampus of male rats (2017).
- Doctorate in Veterinary (D.V.M)(Tehran Uni.), **Thesis:** Attenuation of Withdrawal Signs, Blood Cortisol, and Glucose Level with Various Dosage Regimens of Morphine after Precipitated Withdrawal Syndrome in Mice.(2010).

Rankings

- First ranking of Ph.D exam entrance.
- First ranking in Board Exam of Ph.D.
- First ranking of pre-internship exam in doctorate in veterinary.

Courses taught;

- Pharmacology for Medical Students in Iran University of medical sciences and Qom University of Medical sciences.
- Pharmacology for Pharmacy Students in in Pharmacy college of Islamic Azad University (Qom and Tehran) of medical sciences.
- Pharmacology for Nursing Students in Iran University of medical sciences.

- Pharmacology for Midwifery Students in Iran University of medical sciences.
- Pharmacology for Medicinal chemistry Master student in Pharmacy college of Islamic Azad (Qom and Tehran) University of medical sciences.
- English Language for Medical Students of college of Islamic Azad (Qom and Tehran) University of medical sciences.
- Toxicology for laboratory sciences student of college of Islamic Azad (Qom) University of medical sciences.

Main research interest

- Pharmacotherapy
- Neuro-psychopharmacology
- Neuropharmacology
- Addiction biology
- Cell signaling (Focuses on neuromodulator protein, CREB and related proteins signaling pathway)
- Neuro-hormonal changes in Addiction

Publications in International and ISI journals

1. Motaghinejad M, Motevalian M, Asadi-Ghalehni M, Motaghinejad O. Attenuation of morphine withdrawal signs, blood cortisol and glucose level with forced exercise in comparison with clonidine. *Advanced Biomedical Research*. 2014;3.
2. Motaghinejad M, Ghaleni MA, Motaghinejad O. Preventive effects of forced exercise against alcohol-induced physical dependency and reduction of pain perception threshold. *International journal of preventive medicine*. 2014;5(10):1299.
3. Motaghinejad M, Ebrahimzadeh A, Shabab B. Preventive effect of central administration of venlafaxine on morphine physical dependence, nociception, and blood cortisol level in rat. *International Journal of Preventive Medicine*. 2014;5(11):1422.
4. Shojaii A, Motaghinejad M, Norouzi S, Motevalian M. Evaluation of anti-inflammatory and analgesic activity of the extract and fractions of *Astragalus hamosus* in animal models. *Iranian Journal of Pharmaceutical Research: IJPR*. 2015;14(1):263.

5. Noori N, Bangash MY, Motaghinejad M, Hosseini P, Noudoost B. Kefir protective effects against nicotine cessation-induced anxiety and cognition impairments in rats. *Advanced Biomedical Research*. 2014;3.
6. Motaghinejad M, Karimian M, Motaghinejad O, Shabab B, Yazdani I, Fatima S. Protective effects of various dosage of Curcumin against morphine induced apoptosis and oxidative stress in rat isolated hippocampus. *Pharmacological Reports*. 2015;67(2):230-5.
7. Motaghinejad M, Bangash MY, Hosseini P, Karimian SM, Motaghinejad O. Attenuation of morphine withdrawal syndrome by various dosages of curcumin in comparison with clonidine in mouse: possible mechanism. *Iranian Journal of Medical Sciences*. 2015;40(2):125.
8. Motaghinejad M, Karimian SM, Motaghinejad O, Shabab B, Asadighaleni M, Fatima S. The effect of various morphine weaning regimens on the sequelae of opioid tolerance involving physical dependency, anxiety and hippocampus cell neurodegeneration in rats. *Fundamental & Clinical Pharmacology*. 2015;29(3):299-309.
9. Motaghinejad M, Motaghinejad O, Hosseini P. Attenuation of morphine physical dependence and blood levels of cortisol by central and systemic administration of ramelteon in rat. *Iranian journal of medical sciences*. 2015;40(3):240.
10. Motaghinejad M, Bangash MY, Motaghinejad O. Attenuation of alcohol withdrawal syndrome and blood cortisol level with forced exercise in comparison with diazepam. *Acta Medica Iranica*. 2015:311-6.
11. Motaghinejad M, Motevalian M, Ebrahimzadeh A. Reduction of methylphenidate induced anxiety, depression and cognition impairment by various doses of venlafaxine in rat. *International Journal of Preventive Medicine*. 2015;6.
12. Motaghinejad M, Motevalian M, Larijani SF, Khajehamedi Z. Protective effects of forced exercise against methylphenidate-induced anxiety, depression and cognition impairment in rat. *Advanced biomedical research*. 2015;4.
13. Motaghinejad M, Fatima S, Karimian M, Ganji S. Protective effects of forced exercise against nicotine-induced anxiety, depression and cognition impairment in rat. *Journal of Basic and Clinical Physiology and Pharmacology*. 2016;27(1):19-27.
14. Motaghinejad M, Motevalian M, Shabab B. Effects of chronic treatment with methylphenidate on oxidative stress and inflammation in hippocampus of adult rats. *Neuroscience letters*. 2016;619:106-13.
15. Motaghinejad M, Motevalian M, Falak R, Heidari M, Sharzad M, Kalantari E. Neuroprotective effects of various doses of topiramate against methylphenidate-induced oxidative stress and inflammation in isolated rat amygdala: the possible role of CREB/BDNF signaling pathway. *Journal of Neural Transmission*. 2016;123(12):1463-77.

16. Motaghinejad M, Sadeghi-Hashjin G, Koohi MK, Karimian SM. Attenuation of withdrawal signs, blood cortisol, and glucose level with various dosage regimens of morphine after precipitated withdrawal syndrome in mice. *Iranian journal of medical sciences*. 2016;41(1):53.
17. Motaghinejad M, Motevalian M. Involvement of AMPA/kainate and GABAA receptors in topiramate neuroprotective effects against methylphenidate abuse sequels involving oxidative stress and inflammation in rat isolated hippocampus. *European Journal of Pharmacology*. 2016;784:181-91.
18. Motaghinejad M, Seyedjavadein Z, Motevalian M, Asadi M. The neuroprotective effect of lithium against high dose methylphenidate: Possible role of BDNF. *Neurotoxicology*. 2016;56:40-54.
19. Motaghinejad M, Motevalian M, Shabab B, Fatima S. Effects of acute doses of methylphenidate on inflammation and oxidative stress in isolated hippocampus and cerebral cortex of adult rats. *Journal of Neural Transmission*. 2017;124(1):121-31.
20. Motaghinejad M, Motevalian M, Shabab B. Possible involvements of glutamate and adrenergic receptors on acute toxicity of methylphenidate in isolated hippocampus and cerebral cortex of adult rats. *Fundamental & Clinical Pharmacology*. 2017;31(2):208-25.
21. Motaghinejad M, Fatima S, Banifazl S, Bangash MY, Karimian M. Study of the effects of controlled morphine administration for treatment of anxiety, depression and cognition impairment in morphine-addicted rats. *Advanced biomedical research*. 2016;5.
22. Motaghinejad M, Motevalian M, Abdollahi M, Heidari M, Madjd Z. Topiramate confers neuroprotection against methylphenidate-induced neurodegeneration in dentate gyrus and CA1 regions of Hippocampus via CREB/BDNF pathway in rats. *Neurotoxicity research*. 2017;31(3):373-99.
23. Motaghinejad M, Motevalian M, Fatima S. Mediatory role of NMDA, AMPA/kainate, GABAA and Alpha2 receptors in topiramate neuroprotective effects against methylphenidate induced neurotoxicity in rat. *Life Sciences*. 2017;179:37-53.
24. Motaghinejad M, Motevalian M, Fatima S, Hashemi H, Gholami M. Curcumin confers neuroprotection against alcohol-induced hippocampal neurodegeneration via CREB-BDNF pathway in rats. *Biomedicine & Pharmacotherapy*. 2017;87:721-40.
25. Motaghinejad M, Motevalian M, Babalouei F, Abdollahi M, Heidari M, Madjd Z. Possible involvement of CREB/BDNF signaling pathway in neuroprotective effects of topiramate against methylphenidate induced apoptosis, oxidative stress and inflammation in isolated hippocampus of rats: molecular, biochemical and histological evidences. *Brain research bulletin*. 2017;132:82-98.

26. Kheiri R, Koohi MK, Sadeghi-Hashjin G, Nouri H, Khezli N, Hassan MA, et al. Comparison of the effects of iron oxide, as a new form of iron supplement, and ferrous sulfate on the blood levels of iron and total iron-binding globulin in the rabbit. *Iranian Journal of Medical Sciences*. 2017;42(1):79.
27. Mousavi SN, Faghihi A, Motaghinejad M, Shiasi M, Imanparast F, Amiri HL, et al. Zinc and selenium co-supplementation reduces some lipid peroxidation and angiogenesis markers in a rat model of NAFLD-fed high fat diet. *Biological trace element research*. 2018;181(2):288-95.
28. Motaghinejad M, Motevalian M, Fatima S, Faraji F, Mozaffari S. The neuroprotective effect of curcumin against nicotine-induced neurotoxicity is mediated by CREB–BDNF signaling pathway. *Neurochemical Research*. 2017;42(10):2921-32.
29. Motaghinejad M, Motevalian M, Fatima S, Beiranvand T, Mozaffari S. Topiramate via NMDA, AMPA/kainate, GABAA and Alpha2 receptors and by modulation of CREB/BDNF and Akt/GSK3 signaling pathway exerts neuroprotective effects against methylphenidate-induced neurotoxicity in rats. *Journal of Neural Transmission*. 2017;124(11):1369-87.
30. Asadi-Ghalehni M, Rasaei MJ, RajabiBazl M, Khosravani M, Motaghinejad M, Javanmardi M, et al. A novel recombinant anti-epidermal growth factor receptor peptide vaccine capable of active immunization and reduction of tumor volume in a mouse model. *Microbiology and immunology*. 2017;61(12):531-8.
31. Motaghinejad O, Motaghinejad M, Motevalian M, Rahimi-Sharbat F, Beiranvand T. The effect of maternal forced exercise on offspring pain perception, motor activity and anxiety disorder: the role of 5-HT2 and D2 receptors and CREB gene expression. *Journal of exercise rehabilitation*. 2017;13(5):514.
32. Motaghinejad O, Motaghinejad M, Motevalian M. Preventive Effect of Maternal Forced Exercise on Offspring Pain Perception and Intensity: The Role of 5-HT2 and D2 Receptors. *Advanced Biomedical Research*. 2017;6.
33. Taheri P, Keshavarzi S, Ebadi M, Motaghinejad M, Motevalian M. Neuroprotective effects of forced exercise and bupropion on chronic methamphetamine-induced cognitive impairment via modulation of cAMP response element-binding protein/brain-derived neurotrophic factor signaling pathway, oxidative stress, and inflammatory biomarkers in rats. *Advanced Biomedical Research*. 2018;7.
34. Keshavarzi S, Kermanshahi S, Karami L, Motaghinejad M, Motevalian M, Sadr S. Protective role of metformin against methamphetamine induced anxiety, depression, cognition impairment and neurodegeneration in rat: the role of CREB/BDNF and Akt/GSK3 signaling pathways. *Neurotoxicology*. 2019;72:74-84.
35. Motaghinejad M, Safari S, Feizipour S, Sadr S. Crocin may be useful to prevent or treatment of alcohol induced neurodegeneration and neurobehavioral sequels via modulation of CREB/BDNF and Akt/GSK signaling pathway. *Medical Hypotheses*. 2019;124:21-5.

36. Borumand MR, Motaghinejad M, Motevalian M, Gholami M. Duloxetine by modulating the Akt/GSK3 signaling pathways has neuroprotective effects against methamphetamine-induced neurodegeneration and cognition impairment in rats. *Iranian Journal of Medical Sciences*. 2019;44(2):146.
37. Yasuj SR, Nourhashemi M, Keshavarzi S, Motaghinejad M, Motevalian M. Possible role of cyclic AMP response element binding/brain-derived neurotrophic factor signaling pathway in mediating the pharmacological effects of duloxetine against methamphetamine use-induced cognitive impairment and withdrawal-induced anxiety and depression in rats. *Advanced biomedical research*. 2019;8.
38. Salehi P, Shahmirzadi ZY, Mirrezaei FS, Boushehri FS, Mayahi F, Songhori M, et al. A hypothetic role of minocycline as a neuroprotective agent against methylphenidate-induced neuronal mitochondrial dysfunction and tau protein hyper-phosphorylation: possible role of PI3/Akt/GSK3 β signaling pathway. *Medical Hypotheses*. 2019;128:6-10.
39. Majdi F, Taheri F, Salehi P, Motaghinejad M, Safari S. Cannabinoids Δ^9 -tetrahydrocannabinol and cannabidiol may be effective against methamphetamine induced mitochondrial dysfunction and inflammation by modulation of Toll-like type-4 (Toll-like 4) receptors and NF- κ B signaling. *Medical Hypotheses*. 2019;133:109371.
40. Mozaffari S, Yasuj SR, Motaghinejad M, Motevalian M, Kheiri R. Crocin acting as a neuroprotective agent against methamphetamine-induced neurodegeneration via CREB-BDNF signaling pathway. *Iranian journal of pharmaceutical research: IJPR*. 2019;18(2):745.
41. Mehrafza S, Kermanshahi S, Mostafidi S, Motaghinejad M, Motevalian M, Fatima S. Pharmacological evidence for lithium-induced neuroprotection against methamphetamine-induced neurodegeneration via Akt-1/GSK3 and CREB-BDNF signaling pathways. *Iranian journal of basic medical sciences*. 2019;22(8):856.
42. Mohammadi N, Taheri P, Shahmoradi E, Motaghinejad M, Gholami M, Motevalian M. Preventive effects of duloxetine against methamphetamine induced neurodegeneration and motor activity disorder in rat: Possible role of CREB/BDNF signaling pathway. *International Journal of Preventive Medicine*. 2019;10.
43. Ebrahimzadeh A, Moghadam SY, Rahimi H, Motaghinejad M, Motevalian M, Safari S, et al. Crocin acts as a neuroprotective mediator against methylphenidate-induced neurobehavioral and neurochemical sequelae: Possible role of the CREB-BDNF signaling pathway. *Acta Neurobiol Exp*. 2019;79:352-66.
44. Sepehr A, Motaghinejad M, Heysieattalab S, Safari S. Minocycline may be useful to prevent or treat methamphetamine-induced neural cell death: Hypothetic role of autophagia and apoptosis signaling pathway. *Advanced Biomedical Research*. 2020;9.

45. Motaghinejad M, Farokhi N, Motevalian M, Safari S. Molecular, histological and behavioral evidences for neuroprotective effects of minocycline against nicotine-induced neurodegeneration and cognition impairment: Possible role of CREB-BDNF signaling pathway. *Behavioural Brain Research*. 2020;386:112597.
46. Kandezi N, Majdi F, Davoudizadeh R, Motaghinejad M, Safari S. Preventive Properties of Ramelteon against Cocaine-Induced Autophagia and Apoptosis: A Hypothetic Role of TNF- α Receptor Involvement and JNK/Bcl-2-Bec1 or Bcl-2/Bax Signaling Pathway. *International journal of preventive medicine*. 2020;11(3):11-36 (16 March 2020) DOI: 10.4103/ijpvm.IJPVM_446_19.
47. Khani MA, SalehiRad M, Darbeheshti S, Motaghinejad M. Survival of COVID-19 patients requires precise immune regulation: The hypothetical immunoprotective role of nicotinic agonists. *Medical hypotheses*. 2020;143:109871.
48. Motaghinejad M, Mashayekh R, Motevalian M, Safari S. The possible role of CREB-BDNF signaling pathway in neuroprotective effects of minocycline against alcohol-induced neurodegeneration: molecular and behavioral evidences. *Fundamental & Clinical Pharmacology*. 2021;35(1):113-30.
49. Sepehr A, Taheri F, Heidarian S, Motaghinejad M, Safari S. Neuroprotective and neuro-survival properties of safinamide against methamphetamine-induced neurodegeneration: Hypothetic possible role of BDNF/TrkB/PGC-1 α signaling pathway and mitochondrial uncoupling protein- 2 (UCP-2). *Medical hypotheses*. 2020;143:110094.
50. Feizipour S, Sobhani S, Mehrafza S, Gholami M, Motaghinejad M, Motevalian M, et al. Selegiline acts as neuroprotective agent against methamphetamine-prompted mood and cognitive related behavior and neurotoxicity in rats: Involvement of CREB/BDNF and Akt/GSK3 signal pathways. *Iranian Journal of Basic Medical Sciences*. 2020;23(5):606.
51. Kandezi N, Mohammadi M, Ghaffari M, Gholami M, Motaghinejad M, Safari S. Novel insight to neuroprotective potential of curcumin: a mechanistic review of possible involvement of mitochondrial biogenesis and PI3/Akt/GSK3 or PI3/Akt/CREB/BDNF signaling pathways. *International Journal of Molecular and Cellular Medicine*. 2020;9(1):1.
52. Kermanshahi S, Ghanavati G, Abbasi-Mesrabadi M, Gholami M, Ulloa L, Motaghinejad M, et al. Novel Neuroprotective Potential of Crocin in Neurodegenerative Disorders: An Illustrated Mechanistic Review. *Neurochemical Research*. 2020;45(11):2573-85.
53. Motaghinejad M, Gholami M. Possible Neurological and Mental Outcomes of COVID-19 Infection: A Hypothetical Role of ACE-2/Mas/BDNF Signaling Pathway. *International Journal of Preventive Medicine*. 2020;11(7):11-84 (9 July 2020) DOI: 10.4103/2008-7802.289253.
54. Kermanshahi S, Gholami M, Motaghinejad M. Can infection of COVID-19 virus exacerbate Alzheimer's symptoms? Hypothetic possible role of angiotensin-converting enzyme-

2/Mas/brain-derived neurotrophic factor axis and Tau hyper-phosphorylation. *Advanced Biomedical Research*. 2020;9.

55. Soleimani Meigoni Z, Jabari F, Motaghinejad M, Motevalian M. Protective effects of forced exercise against topiramate-induced cognition impairment and enhancement of its antiepileptic activity: Molecular and behavioral evidences. *International Journal of Neuroscience*. 2021;1-12.

56. Goudarzi N, Valipour SM, Nooritahneh A, Motaghinejad M, Motevalian M, Safari S, et al. Pharmacological Evidences for Curcumin Neuroprotective Effects against Lead-Induced Neurodegeneration: Possible Role of Akt/GSK3 Signaling Pathway. *Iranian Journal of Pharmaceutical Research: IJPR*. 2020;19(3):494.

57. Gholami M, Safari S, Ulloa L, Motaghinejad M. Neuropathies and neurological dysfunction induced by coronaviruses. *Journal of neurovirology*. 2021;27(3):380-96.

58. Gholami M, Nozarnezhad R, Motaghinejad M. Hypothetical Protective Effects of Crocin Carotenoid against Coronavirus-Induced Organ Damage: The Possible Role of the NF- κ B Signaling Pathway. *Iranian Journal of Medical Sciences*. 2021;46(3):228.

59. Sepehr A, Taheri F, Kandezi N, Motaghinejad M, Safari S, Mohammadi N. Preventive Role of Cannabinoids Derivate against Methylphenidate-Induced Oxidative Stress and Inflammation: The Hypothetical Function of Keap1/Nrf2/ARE Signaling and Proposal of a Treatment Strategy for Neurodegeneration. *International Journal of Preventive Medicine*. 2021;12(2):12-7 (24 February 2021) DOI: 10.4103/ijpvm. IJPVM_249_20.

60. Salehi E, Mashayekh M, Taheri F, Gholami M, Motaghinejad M, Safari S, et al. Curcumin Can be Acts as Effective agent for Prevent or Treatment of Alcohol-induced Toxicity in Hepatocytes: An Illustrated Mechanistic Review. *Iranian Journal of Pharmaceutical Research: IJPR*. 2021;20(1):418.

61. Ghafarimoghadam M, Mashayekh R, Gholami M, Fereydani P, Shelley-Tremblay J, Kandezi N, et al. A review of behavioral methods for the evaluation of cognitive performance in animal models: Current techniques and links to human cognition. *Physiology & behavior*. 2022;244:113652.

62. Gholami M, Hozuri F, Abdolkarimi S, Mahmoudi M, Motaghinejad M, Safari S, et al. Pharmacological and Molecular Evidence of Neuroprotective Curcumin Effects Against Biochemical and Behavioral Sequels Caused by Methamphetamine: Possible Function of CREB-BDNF Signaling Pathway. *Basic and Clinical Neuroscience*. 2021;12(3):325.

63. Motaghinejad M, Motevalian M, Falak R, Heidari M, Sharzad M, Kalantari E. Neuroprotective effects of various doses of topiramate against methylphenidate-induced oxidative stress and inflammation in isolated rat amygdala: the possible role of CREB/BDNF signaling pathway. *Journal of Neural Transmission*. 2016;123(12):1463-77.

64. Standardized Herbal PM014 Formula Ameliorates Pulmonary Fibrosis in COVID-19 Patients by Inhibiting the TGF- β 1 Signaling Pathway M Allahverdi-Khani, L Ulloa, M Motaghinejad, M Salehirad Journal of Advances in Medical and Biomedical Research 30 (140), 2-2.

65. Hepato-Protection effect of curcumin against methylphenidate-induced hepatotoxicity: Histological and biochemical evidences H Ahmadasab, M Motaghinejad, BA Nosratabad, S Bozorgniahosseini. International Journal of Preventive Medicine 13 (1), 65.

66. Possible Involvement of Glutamatergic, Adrenergic and Dopaminergic System in Methylphenidate-induced Motor Activity and Mood-related Alterations in Rats K Jahanbakshi, S Fatima, M Motaghinejad, M Motevalian Journal of Advances in Medical and Biomedical Research 29 (137), 309-316

Abstracts in international and national congress

1. THE EFFECTS OF PERIPHERAL ADMINISTRATION OF GABA ON LPS-INDUCED INFLAMMATION IN LIVER. 16th World Congress Of Basic And Clinical Pharmacology Copenhagen, Denmark 17–23 July 2010.
2. Evaluation of the analgesic effect of aqueous extract of *Elaeagnus angustifolia* in writhing Test: possible mechanism effect. 6th European congress pharmacology, Spain, Granada 2012.
3. Study of the effects of hydro-alcoholic extract of *Passiflora incarnata* on morphine withdrawal syndrome in mice. 6th European congress pharmacology, Spain, Granada 2012.
4. Protective effects of various dosage of Curcumin against morphine induced apoptosis and oxidative stress in rat isolated hippocampus. International Congress of Addiction Science. 10-12 September. 2012. Tehran. Iran.
5. Protective effects of Curcumin against Methamphetamine induced apoptosis, oxidative stress and inflammation in rat isolated hippocampus via Modulation of UCP2 protein expression. International Congress of Addiction Science. 10-12 September. 2012. Tehran. Iran.
6. Protective effects of A2a adenosine receptors against Methamphetamine induced apoptosis, oxidative stress and inflammation in rat isolated hippocampus by Modulation of UCP2 protein expression. International Congress of Addiction Science. 10-12 September. 2012. Tehran. Iran.

7. Protective effects of Melatonin against Methamphetamine induced apoptosis, oxidative stress and inflammation in rat isolated hippocampus via Modulation of NF-KB protein expression. International Congress of Addiction Science.10-12 September.2012.Tehran.Iran.
8. Protective effects of A2a adenosine receptors on morphine induced oxidative stress and apoptosis in mitochondria isolated from rat hippocampus. International Congress of Addiction Science.10-12 September.2014.Tehran.Iran.
9. Attenuation of morphine induces physical dependency, anxiety and hippocampus cell neurodegeneration with various dosage regimens of morphine after precipitated withdrawal syndrome in rat. International Congress of Addiction Science.10-12 September.2014.Tehran.Iran.
10. Comparative effects of various doses of Methylphenidate in anxiety, depression and cognition alteration in rat. International Congress of Addiction Science.10-12 September.2014.Tehran.Iran.
11. Protective effects of various dosage of Topiramate against Methylphenidate induced oxidative stress and inflammation in rat isolated hippocampus .International Congress of Addiction Science.10-12 September.2014.Tehran.Iran.
12. Study of the effects of different doses of crataegus oxyacantha on morphine withdrawal Syndrome in mice, 20th Iranian Congress of Physiology and Pharmacology. Hamedan, Iran 20–25 August 2011.
13. Study of the effect of different doses of *Rosmarinus Officinalis* on morphine Withdrawal syndrome in rat. National Congress of Medicinal Plants.16-17 May 2012,Kish ,Iran.
14. Study of the analgesic effect of Hydroalcoholic Extract of *Thymus Serpyllum* in writhing test. National Congress of Medicinal Plants.16-17 May 2012,Kish ,Iran.
15. Attenuation of Withdrawal Signs, Blood Cortisol, and Glucose Level with Various Dosage Regimens of Morphine after Precipitated Withdrawal Syndrome in Mice,National Congress of Neurosciences ,Gorgan,16-17 February 2011.
16. Interaction of organophosphate with Morphine withdrawal syndrome in rats. National Congress of Neurosciences ,Gorgan,16-17 February 2011.
17. Study of the effects of different doses of *Teucrium polium* on morphine withdrawal
18. Syndrome in mice. 2th International Congress of veterinary Pharmacology. Tehran .Iran,2011.

19. Study of the analgesic effect of Hydroalcoholic Extract of *Matricaria Recurita* in writhing test. 2th International Congress of veterinary Pharmacology. Tehran .Iran, 2011.
20. Protective effects of forced exercise against nicotine-induced anxiety, depression and cognition impairment in rat. 21th Iranian Congress of Physiology and Pharmacology. Tabriz, Iran 23–27 August 2013.
21. Evaluation of Anti-inflammatory and Analgesic Activity of the Extract and Fractions of *Astragalus hamosus* in Animal Models. 21th Iranian Congress of Physiology and Pharmacology. Tabriz, Iran 23–27 August 2013.
22. Evaluation of Anti-inflammatory and Analgesic Activity of the Extract and Fractions of *Elangus Angustiflora* in Animal Models. 21th Iranian Congress of Physiology and Pharmacology. Tabriz, Iran 23–27 August 2013.
23. Neuroprotective effects of various doses of topiramate against methylphenidate-induced oxidative stress and inflammation in isolated rat amygdala: the possible role of CREB /BDNF signaling pathway. Fourth International Basic and clinical Neuroscience Congress. Tehran, Iran 21-24 December 2015.
24. Possible Involvement of Phospho-CREB/BDNF signaling pathway in neuroprotective effects of lithium against nicotine induced neurodegeneration in rat isolated hippocampus. Fourth International Basic and clinical Neuroscience Congress. Tehran, Iran 21-24 December 2015
25. The neuroprotective role of Curcumin against alcohol-induced hippocampus neurodegeneration through Phospho-CREB/BDNF signaling pathway in rats. Fifth International Basic and clinical Neuroscience Congress. Tehran, Iran 21-24 December 2016.
26. Protective effects of Melatonin against Methamphetamine induced apoptosis, oxidative stress and inflammation in rat isolated hippocampus via Modulation of NF-KB protein expression. Fourth International Basic and clinical Neuroscience Congress. Tehran, Iran 21-24 December 2016.
27. Topiramate confers neuroprotection against methamphetamine-induced neurodegeneration in dentate gyrus and CA1 regions of hippocampus via CREB-BDNF pathway in rats. Congress. ASC congress, Tehran, Iran 11-14 September 2017.

28. Topiramate via NMDA, AMPA/kainate, GABA_A and Alpha2 receptors and by modulation of CREB/BDNF and Akt/GSK3 signaling pathway exerts neuroprotective effects against methamphetamine induced neurotoxicity in rats . ASC congress, Tehran, Iran 11-14 September 2017.
29. The neuroprotective effect of curcumin against nicotine-induced neurotoxicity is mediated by CREB-BDNF signaling pathway. ASC congress, Tehran, Iran 11-14 September 2017.
30. Topiramate protects hippocampal cells against methamphetamine induced neuro-inflammation and oxidative stress through inhibition of toll-like receptor signaling pathway. ASC congress, Tehran, Iran 11-14 September 2017.
31. Curcumin ameliorates methamphetamine-induced memory deficits, tau hyperphosphorylation and neurodegeneration via PI3/Akt/GSk3 β pathway in the rat hippocampus. ASC congress, Tehran, Iran 11-14 September 2017.

Books

1. Morphine against Morphine(As English language)
2. Addiction and Anxiety(As English language)
3. Addiction and Cognition(As English language)
4. Exercise Effects on morphine and Alcohol dependency(As English language)
5. Mechanism of T.poilum on Pain and Addiction(As English language)
6. Principle of Pharmacodynamic (As Persian language)
7. Pharmacology for medical student(As Persian language)
8. Key notes for top question and its answer for pharmacology exams(As Persian language)
9. Translation of Katzung and Terover Text Book of pharmacology(edition of 2021, 2019, 2015 and 2011)

10. Translation of Katzung Basic and clinical pharmacology Text book (edition of 2021, 2018, 2015 and 2012).
11. Translation of Rand and Dale pharmacology Text book (edition of 2021).

Awards

- Iran University of Medical Sciences Scholarship to study for Ph.D. (2011).
- Receipt Award of young Investigator of addiction medicine (2014).
- Receipt Award of top author in Islamic republic of Iran festival of student yearbook (2015).
- Receipt Award of top and distinguish researcher in Iran university of Medical sciences (EZAMA)(2016).
- Receipt Award for best article in addiction biology (EZAMA) (2016).
- Receipt Award of young Investigator of addiction medicine (EZAMA) (2017).
- Receipt Award of young Investigator of addiction medicine (EZAMA) (2018).

Expert in Methods

- Evaluation of Depression and anxiety Behavior in animal model (OFT, EPM, FSM and TST).
- Evaluation of Cognition behavior in animal model (MWM).
- RT-PCR
- Western Blot
- Immunohistochemistry
- HPLC
- Evaluation Antioxidant and Inflammatory Biomarkers by special kits.

Participation in Workshop:

- Participation in IBRO (International Brain Research Organization) School in April 2016.
- Participation in IBRO (International Brain Research Organization) School in September 2019.
- Participation in workshop of Scientific Writing.
- Participation in workshop of SPSS.
- Participation in workshop of Molecular Methods (Western Blot, RT-PCR and Immunohistochemistry) in Brain Research.

مجری یا همکار طرحهای تحقیقاتی :

الف) طرح های در دست اجرا

- بررسی اثرات ترامادول در دوزهای مختلف بر روند پیام رسانی آپوپتوز و اتوفازی در هیپوکمپ موش صحرایی نر-مجری طرح
- تاثیر تجویز همزمان داروی اکسی توسین بر سمیت عصبی ناشی از الکل و نقش تغییرات احتمالی میزان بیان پروتئین های دخیل در فرآیند نورودژنراسیون، آپوپتوزیس و اتوفازی-مجری طرح
- بررسی اثرات محافظت کنندگی عصبی تری متازیدین در سمیت عصبی ناشی از مصرف (تجویز) مزمن ترامادول در هیپوکمپ موش صحرایی نر-مجری طرح
- مطالعه نقش تجویز همزمان داروی کروسین بر سمیت عصبی و مرگ سلولی عصبی ناشی از نیکوتین و بررسی نقش تغییرات احتمالی مسیرهای پیام رسانی دخیل در فرآیند آپوپتوز و اتوفازی-مجری طرح
- مطالعه نقش تجویز سلژیلین و اثرات محافظت کنندگی آن بر اختلالات رفتاری ناشی از متامفتامین-مجری طرح

- بررسی اثرات محافظت‌کنندگی عصبی مینوسایکلین در سمیت عصبی ناشی از مصرف (تجویز) مزمن ترامادول در هیپوکامپ موش صحرایی نر- مجری طرح
- تاثیر درمان های جایگزین متادون، بوپرنورفین و شربت تریاک بر عملکردهای شناختی، اکسیداتیو استرس، فاکتورهای نوروتروفیک و التهابی افراد تحت درمان: یک مطالعه طولی - همکار طرح
- بررسی اثرات کانابیدیول، بر سطح وابستگی، اشتیاق و بازگشت به مصرف متامفتامین، یک مطالعه حیوانی و انسانی - همکار طرح

ب) طرح های به اتمام رسیده

- بررسی تاثیر ورزش اجباری مادر در حاملگی بر آستانه، ادراک و شدت درد در فرزندان موش صحرایی و مکانیسم های احتمالی - همکار طرح
- بررسی تاثیر ورزش اجباری در میزان وابستگی به مورفین، الکل، متیل فنیدات و متامفتامین در موش صحرایی و ارزیابی مکانیسم های احتمالی - همکار طرح
- بررسی تغییرات CREB بر سمیت عصبی ناشی از متیل فنیدات متعاقب استفاده از توپیرامات در ناحیه هیپوکامپ موش صحرایی نر- همکار طرح
- بررسی تغییرات ژن های بالادستی و پایین دستی پروتئین CREB و میزان لوکالیزه شدن این پروتئین در هیپوکامپ در شرایط سمیت عصبی ناشی از متیل فنیدات متعاقب استفاده از توپیرامات در موش صحرایی نر- همکار طرح
- بررسی اثرات محافظت کبدی کورکومین بر آسیب کبدی ناشی از متیل فنیدات در موش صحرایی نر- همکار طرح
- بررسی اثرات غلظت های مختلف کورکومین (curcumin) بر میزان رشد رده سلولهای سرطانی رده LL/2 در شرایط *in vitro*
- بررسی اثرات ضد دردی داروی متیل فنیدات و نقش احتمالی سیستم های سروتونرژیک، دوپامینرژیک، گابائترژیک و اوپیوئیدرژیک در مدل موش سوری- مجری طرح
- سنتز نانو ذرات زینک با عصاره ی کورکومین و بررسی اثرات فارماکولوژیک آن بر مدل های افسردگی- شیدایی بر موش سوری- همکار طرح
- بررسی اثرات ضد دردی داروی توپیرامات و نقش احتمالی سیستم های سروتونرژیک، دوپامینرژیک، گابائترژیک و اوپیوئیدرژیک در مدل موش سوری- مجری طرح
- سنتز نانوذرات منیزیم با عصاره ی کورکومین و بررسی اثرات فارماکولوژیک آن بر مدل های افسردگی- شیدایی موش سوری- همکار طرح

- بررسی فارماکولوژی نمدهای نانو فیبری پلی وینیل الکل حاوی داروی پرامی پکسول - همکار طرح
- سنتز نانو ذرات نقره روی عصاره کورکومین و بررسی اثرات ضد دردی آن ها- همکار طرح
- تهیه نانو فیبر پلیمری حاوی عصاره گیاه سمبله ای نقره ای با کاربرد دارویی و بررسی خواص آن- همکار طرح
- بررسی اثرات ورزش اجباری در کاهش حافظه ناشی از مصرف توپیرامات در موش صحرایی- همکار طرح

همکاری در برگزاری کارگاه‌های آموزشی:

الف) مشارکت در برگزاری کارگاه آموزشی Biosafety (به صورت دوره ای طی هر فصل) در دانشگاه علوم پزشکی ایران

ب) برگزاری کارگاه آموزشی نحوه کار با حیوانات آزمایشگاهی (به صورت دوره ای طی هر فصل) در دانشگاه علوم پزشکی ایران

همکاری در در قالب استاد راهنما و مشاور در پایان نامه های انجام شده در دانشگاه های دولتی و آزاد اسلامی

نام دانشجو	عنوان پایان نامه	استاد راهنما/مشاور	کد رهگیری در پژوهشیار	سال فراغت از تحصیل و رشته تحصیلی
مهسا صالحی راد	سنتز نانوذرات منیزیم کورکومین و بررسی اثرات فارماکولوژیک آن بر اختلال دوقطبی در موش سوری	استاد راهنمای دوم	۵۵۴۸	کارشناسی ارشد شیمی دارویی / ۱۳۹۸
فاطمه مبین حسینی	سنتز نانو ذرات زینک کورکومین و بررسی اثرات فارماکولوژیک آن بر اختلال دوقطبی در موش سوری	استاد راهنمای دوم	۵۵۸۲	کارشناسی ارشد شیمی دارویی / ۱۳۹۸
ستایش عبدالکریمی	سنتز نانوذرات کورکومین بر روی قنبره و بررسی اثرات فارماکولوژیک آن	استاد راهنمای دوم	۱۱۶۵۵	کارشناسی ارشد شیمی دارویی / ۱۳۹۸
فاطمه ادیبی پور	سنتز کمپلکس های متفورمین با فلز روی یا قلع و بررسی اثرات حفاظتی بر مدل القایی کبد چرب	استاد راهنمای دوم	۱۳۶۴۴	کارشناسی ارشد شیمی دارویی / ۱۳۹۸

			درموش سوری	
کارشناسی ارشد شیمی دارویی / ۱۳۹۸	۸۳۰۶	استاد راهنمای دوم	سنتز نانو ذرات نقره روی عصاره کوركومين و بررسی اثرات ضد دردی آن ها	یاس گل سدهی اصفهانی
کارشناسی ارشد شیمی دارویی / ۱۳۹۸	۴۵۷۰	استاد مشاور	تهیه نانو فیبر پلیمری حاوی عصاره گیاه سمبله ای نقره ای با کاربرد دارویی و بررسی خواص آن	غزال قنواتی
کارشناسی ارشد شیمی دارویی / ۱۳۹۸	۴۱۷۰	استاد مشاور	بررسی فارماکولوژی نمدهای نانو فیبری پلی وینیل الکل حاوی داروی پرامی پکسول	مریم غفاری
دکتری حرفه ای پزشکی / ۱۳۹۸	دانشکده پزشکی دانشگاه علوم پزشکی ایران	استاد مشاور	بررسی اثرات ورزش اجباری در کاهش حافظه ناشی از مصرف توپیرامات در موش صحرايي - همکار طرح	زهرا سلیمان میگونی
دکتری حرفه ای پزشکی / ۱۳۹۹	۴۸۹۴	استاد راهنمای اول	بررسی اثرات ضد دردی داروی توپیرامات و نقش احتمالی سیستم های سروتونرژیک ، دوپامینرژیک ، گابائوژیک و اویپوئیدرژیک در مدل موش سوری	نیوشا کندزی
دکتری حرفه ای پزشکی / ۱۳۹۹	۴۸۹۶	استاد راهنمای اول	بررسی اثرات ضد دردی داروی متیل فنیدات و نقش احتمالی سیستم های سروتونرژیک ، دوپامینرژیک ، گابائوژیک و اویپوئیدرژیک در مدل موش سوری	کوثر جهانبخشی
دکتری حرفه ای پزشکی / ۱۳۹۹	دانشکده پزشکی دانشگاه آزاد واحد قم	استاد راهنمای اول	بررسی اثرات ترامادول در دوزهای مختلف بر روند پیام رسانی آپوپتوز و اتوفازي در هیپوکمپ موش صحرايي نر	ساره عبدی

<p>دکتری حرفه ای پزشکی / ۱۳۹۹</p>	<p>دانشکده پزشکی دانشگاه آزاد واحد قم</p>	<p>استاد راهنمای اول</p>	<p>تأثیر تجویز همزمان داروی اکسی توسین بر سمیت ناشی از الکل و نقش تغییرات احتمالی میزان بیان پروتئین های دخیل در فرآیند نورودژنراسیون، آپوپتوزیس و اتوفاژی در هیپوکمپ موش صحرایی نر</p>	<p>سید احمد علوی</p>
<p>دکتری حرفه ای پزشکی / ۱۳۹۹</p>	<p>دانشکده پزشکی دانشگاه آزاد واحد قم</p>	<p>استاد راهنمای اول</p>	<p>بررسی اثرات محافظت کنندگی عصبی تری متازیدین در سمیت عصبی ناشی از تجویز مزمن ترامادول در هیپوکمپ موش صحرایی نر</p>	<p>محمد گریمی</p>
<p>دکتری حرفه ای پزشکی / ۱۳۹۹</p>	<p>دانشکده پزشکی دانشگاه آزاد واحد قم</p>	<p>استاد راهنمای اول</p>	<p>مطالعه نقش تجویز سلژیلین و اثرات محافظت کنندگی آن بر اختلالات رفتاری ناشی از متامفتامین</p>	<p>رضا داوودی زاده</p>
<p>کارشناسی ارشد شیمی دارویی / ۱۴۰۰</p>	<p>دانشکده داروسازی دانشگاه آزاد واحد تهران</p>	<p>استاد راهنمای اول</p>	<p>مطالعه نقش نانوذره کیتوزانی بوسپیرون بر سمیت عصبی ناشی از الکل در موش های صحرایی نر</p>	<p>مهدی جواد زاده</p>