

Fariba Khodagholi

Ph. D. of Biochemistry

Executive M.B.A in pharmaceutical business

Date of Birth: 21/09/1977

Phone: +98-21-22429768-9

Fax: +98-21-22432047

P.O.Box : 19615-1178

khodagholi@sbmu.ac.ir

Educational Background:

(2002-2006) Ph.D., Biochemistry, Institute of Biochemistry and Biophysics, Tehran University, Tehran, Iran

Thesis entitled "*Kinetic aspects of protein refolding using artificial chaperones*".

(2000-2002) M. Sc, Biochemistry, Institute of Biochemistry and Biophysics, Tehran University, Tehran, Iran

Thesis entitled "*The effect of temperature on the binding of cyanide to Cytochrome d Salmonella typhimurium in intact cell and solubilized enzyme*".

(1995-2000) B. S., Microbiology, Faculty of Science, Tehran University, Tehran, Iran

(2010-2011) Executive M.B.A in pharmaceutical industry, Tehran University, Tehran, Iran

Thesis entitled "*Market of recombinent proteins in Iran and its comparison to other countries*".

Language skills:

Persian (native); English (fluently); French (fluently).

Memberships:

- Member of the Neuroscience Board
- Member of Academy of Medical Sciences (Cognition Group)
- Member of National Elite of Iran
- Member of scientific committee of Iranian society of physiology and pharmacology
- Member of Iran Alzheimer Association

- Member of Association International Society to Advance Alzheimer Research and Treatment (ISTAART)

Publications:

1. Iranipour N, Babaei-Balderlou F, Maleki A, Moslemi M, Khodaghoh F. STIM1, STIM2, and PDI Participate in Cellular Fate Decisions in Low Energy Availability Induced by 3-NP in Male Rats. *Neurotox Res.* 2021 Oct;39(5):1459-1469.
2. Ryan F, Khoshnam SE, Khodaghoh F, Ashabi G, Ahmadiani A. How cytosolic compartments play safeguard functions against neuroinflammation and cell death in cerebral ischemia. *Metab Brain Dis.* 2021 Oct;36(7):1445-1467.
3. Asadi E, Khodaghoh F, Asadi S, Mohammadi Kamsorkh H, Kaveh N, Maleki A. Quality of early-life maternal care predicts empathy-like behavior in adult male rats: Linking empathy to BDNF gene expression in associated brain regions. *Brain Res.* 2021 Sep 15;1767:147568.
4. Eskandari N, Boroujeni ME, Abdollahifar MA, Piryaei A, Khodaghoh F, Mirbehbahani SH, Siroosi S, Moghaddam MH, Aliaghaei A, Sadeghi Y. Transplantation of human dental pulp stem cells compensates for striatal atrophy and modulates neuro-inflammation in 3-nitropropionic acid rat model of Huntington's disease. *Neurosci Res.* 2021 Sep;170:133-144.
5. Jafari MJ, Khosrowabadi R, Khodakarim S, Khodaghoh F, Mohammadian F. The effects of combined exposure to noise and heat on human salivary cortisol and blood pressure. *Int J Occup Saf Ergon.* 2021 Sep;27(3):831-839.
6. Ezi S, Boroujeni ME, Khatmi A, Vakili K, Fathi M, Abdollahifar MA, Aghajanpour F, Soltani R, Mirbehbahani SH, Khodaghoh F, Aliaghaei A, Farahani RM. Chronic Exposure to Tramadol Induces Neurodegeneration in the Cerebellum of Adult Male Rats. *Neurotox Res.* 2021 Aug;39(4):1134-1147.
7. Khalifeh S, Khodaghoh F, Zarrindast MR, Alizadeh R, Asadi S, Mohammadi Kamsorkh H, Nasehi M, Ghadami A, Sadat-Shirazi MS. Altered D2 receptor and transcription factor EB expression in offspring of aggressive male rats, along with having depressive and anxiety-like behaviors. *Int J Neurosci.* 2021 Aug;131(8):789-799.

8. Sanati M, Aminyavari S, Khodagholi F, Hajipour MJ, Sadeghi P, Noruzi M, Moshtagh A, Behmadi H, Sharifzadeh M. PEGylated superparamagnetic iron oxide nanoparticles (SPIONs) ameliorate learning and memory deficit in a rat model of Alzheimer's disease: Potential participation of STIMs. *Neurotoxicology*. 2021 Jul;85:145-159.
9. Rafieepour A, Azari MR, Khodagholi F, Jaktaji JP, Mehrabi Y, Peirovi H. Interactive toxicity effect of combined exposure to hematite and amorphous silicon dioxide nanoparticles in human A cell line. *Toxicol Ind Health*. 2021 May;37(5):289-302.
10. Torabi N, Noursadeghi E, Shayanfar F, Nazari M, Fahanik-Babaei J, Saghiri R, Khodagholi F, Eliassi A. Intranasal insulin improves the structure-function of the brain mitochondrial ATP-sensitive Ca²⁺ activated potassium channel and respiratory chain activities under diabetic conditions. *Biochim Biophys Acta Mol Basis Dis*. 2021 Apr 1;1867(4):166075.
11. Khodagholi F, Zareh Shahamati S, Maleki Chamgordani M, Mousavi MA, Moslemi M, Salehpour M, Rafiei S, Foolad F. Interval aerobic training improves bioenergetics state and mitochondrial dynamics of different brain regions in restraint stressed rats. *Mol Biol Rep*. 2021 Mar;48(3):2071-2082.
12. Rafieepour A, R Azari M, Pourahmad Jaktaji J, Khodagholi F, Peirovi H, Mehrabi Y, Mohammadian Y. The Effect of Particle Size on the Cytotoxicity of Amorphous Silicon Dioxide: An in Vitro Toxicological Study. *Asian Pac J Cancer Prev*. 2021 Feb 1;22(2):325-332.
13. Zardooz H, Sadeghimahalli F, Khodagholi F. Early postnatal stress impairs insulin secretion in response to psychological stress in adult rats. *J Endocrinol Invest*. 2021 Feb;44(2):277-286.
14. Salimi M, Sadeghimahalli F, Shaerzadeh F, Khodagholi F, Zardooz H. Early-life stress altered pancreatic Krebs cycle-related enzyme activities in response to young adulthood physical and psychological stress in male rat offspring. *Horm Mol Biol Clin Investig*. 2020 Dec 10;42(1):19-27.
15. Fatahi Z, Zeinaddini-Meymand A, Karimi-Haghighi S, Haghparast A, Khodagholi F, Haghparast A. BDNF and p-GSK3 β in the hippocampus mediate the impairment of delay-based decision making in morphine-dependent rats. *Neuroreport*. 2020 Dec 9;31(17):1208-1214.

16. Khodagholi F, Maleki A, Motamedi F, Mousavi MA, Rafiei S, Moslemi M. Oxytocin Prevents the Development of 3-NP-Induced Anxiety and Depression in Male and Female Rats: Possible Interaction of OXTR and mGluR2. *Cell Mol Neurobiol*. 2020 Nov 17. doi: 10.1007/s10571-020-01003-0. Online ahead of print.
17. Ghavidel N, Khodagholi F, Ahmadiani A, Khosrowabadi R, Asadi S, Shams J. Inflammation but not programmed cell death is activated in methamphetamine-dependent patients: Relevance to the brain function. *Int J Psychophysiol*. 2020 Nov;157:42-50.
18. Kordestani-Moghadam P, Nasehi M, Vaseghi S, Khodagholi F, Zarrindast MR. The role of sleep disturbances in depressive-like behavior with emphasis on α -ketoglutarate dehydrogenase activity in rats. *Physiol Behav*. 2020 Oct 1;224:113023.
19. Safari V, Nategh M, Dargahi L, Zibaii ME, Khodagholi 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.
20. Binayi F, Moslemi M, Khodagholi F, Hedayati M, Zardooz H. Long-term high-fat diet disrupts lipid metabolism and causes inflammation in adult male rats: possible intervention of endoplasmic reticulum stress. *Arch Physiol Biochem*. 2020 Sep 10:1-9.
21. Ahmad-Molaei L, Pourhamzeh M, Ahadi R, Khodagholi F, Hassanian-Moghaddam H, Haghparast A. Time-Dependent Changes in the Serum Levels of Neurobiochemical Factors After Acute Methadone Overdose in Adolescent Male Rat. *Cell Mol Neurobiol*. 2020 Jul 25.
22. Fatahi Z, Zeinaddini-Meymand A, Karimi S, Khodagholi F, Haghparast A. Impairment of cost-benefit decision making in morphine-dependent rats is partly mediated via the alteration of BDNF and p-CREB levels in the nucleus accumbens. *Pharmacol Biochem Behav*. 2020 Jul;194:172952.
23. Kordestani-Moghadam P, Nasehi M, Khodagholi F, Vaseghi S, Zarrindast MR, Khani M. The fluctuations of metabotropic glutamate receptor subtype 5 (mGluR5) in the amygdala in fear conditioning model of male Wistar rats following sleep deprivation, reverse circadian and napping. *Brain Res*. 2020 May 1;1734:146739.
24. Azari MR, Mohammadian Y, Pourahmad J, Khodagholi F, Mehrabi Y. Additive toxicity of Co-exposure to pristine multi-walled carbon nanotubes and benzo α pyrene in lung cells. *Environ Res*. 2020 Apr;183:109219.

25. Akhlaghpasand M, Tizro M, Raofei A, Meymand AZ, Farhadieh M, Khodagholi F, Khatmi A, Soltani R, Hoseini Y, Jahanian A, Boroujeni ME, Aliaghaei A. Grafted human chorionic stem cells restore motor function and preclude cerebellar neurodegeneration in rat model of cerebellar ataxia. *Metab Brain Dis*. 2020 Apr;35(4):615-625.
26. Foolad F, Khodagholi F, Nabavi SM, Javan M. Changes in mitochondrial function in patients with neuromyelitis optica; correlations with motor and cognitive disabilities. *PLoS One*. 2020 Mar 26;15(3):e0230691.
27. Ghavidel N, Khodagholi F, Ahmadiani A, Khosrowabadi R, Asadi S, Shams J. Frontocingulate Dysfunction Is Associated with Depression and Decreased Serum PON1 in Methamphetamine-Dependent Patients. *Neuropsychiatr Dis Treat*. 2020 Feb 19;16:489-499.
28. Moslemi M, Khodagholi F, Asadi S, Rafiei S, Motamedi F. Oxytocin protects against 3-NP induced learning and memory impairment in rats: Sex differences in behavioral and molecular responses to the context of prenatal stress. *Behav Brain Res*. 2020 Feb 3;379:112354.
29. Emam B, Shahsavani A, Khodagholi F, Zarandi SM, Hopke PK, Hadei M, Behbahani H, Yarahmadi M. Effects of PM_{2.5} and gases exposure during prenatal and early-life on autism-like phenotypes in male rat offspring. *Part Fibre Toxicol*. 2020 Jan 29;17(1):8.
30. Ghadiri T, Gorji A, Vakilzadeh G, Hajali V, Khodagholi F, Sharifzadeh M. Neuronal injury and death following focal mild brain injury: The role of network excitability and seizure. *Iran J Basic Med Sci*. 2020 Jan;23(1):63-70.
31. Fatahi Z, Zeinaddini-Meymand A, Karimi-Haghighi S, Moradi M, Khodagholi F, Haghparast A. Naloxone-precipitated withdrawal ameliorates impairment of cost-benefit decision making in morphine-treated rats: Involvement of BDNF, p-GSK3- β , and p-CREB in the amygdala. *Neurobiol Learn Mem*. 2020 Jan;167:107138.
32. Kordestani Moghadam P, Nasehi M, Khodagholi F, Zarrindast MR. Vulnerability of Left Amygdala to Total Sleep Deprivation and Reversed Circadian Rhythm in Molecular Level: Glut1 as a Metabolic Biomarker. *Galen Med J*. 2019 Jun 25;8:e970.
33. Azari MR, Mohammadian Y, Peirovi H, Omid M, Khodagholi F, Pourahmad J, Mehrabi Y, Rafieepour A. Antagonistic effect of co-exposure to short-multiwalled carbon nanotubes and benzo[a]pyrene in human lung cells (A549). *Toxicol Ind Health*. 2019 Jun;35(6):445-456.

34. Manouchehri N, Khodagholi 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.
35. Ghanbari-Maman A, Ghasemian-Roudsari F, Aliakbari S, Gholami Pourbadie H, Khodagholi F, Shaerzadeh F, Daftari M. Calcium Channel Blockade Ameliorates Endoplasmic Reticulum Stress in the Hippocampus Induced by Amyloidopathy in the Entorhinal Cortex. *Iran J Pharm Res.* 2019 Summer;18(3):1466-1476.
36. Sadeghimahalli F, Karbaschi R, Salimi M, Khodagholi F, Zardooz H. Pancreatic HB9 protein level is affected by early life stress in young adult rats: possible involvement of TNF- α and corticosterone. *Arch Physiol Biochem.* 2019 Aug 1:1-8.
37. Ghadiri T, Vakilzadeh G, Hajali V, Khodagholi F. Progesterone modulates post-traumatic epileptogenesis through regulation of BDNF-TrkB signaling and cell survival-related pathways in the rat hippocampus. *Neurosci Lett.* 2019 Sep 14;709:134384.
38. Foolad F, Khodagholi F, Javan M. Sirtuins in Multiple Sclerosis: The crossroad of neurodegeneration, autoimmunity and metabolism. *Mult Scler Relat Disord.* 2019 Sep;34:47-58.
39. Arezoomandan R, Aliaghaei A, Khodagholi F, Haghparast A. Minocycline induces the expression of intra-accumbal glutamate transporter-1 in the morphine-dependent rats. *Asian J Psychiatr.* 2019 Dec;46:70-73.
40. Rafieepour A, Azari MR, Peirovi H, Khodagholi F, Jaktaji JP, Mehrabi Y, Naserzadeh P, Mohammadian Y. Investigation of the effect of magnetite iron oxide particles size on cytotoxicity in A₅₄₉ cell line. *Toxicol Ind Health.* 2019 Nov-Dec;35(11-12):703-713.
41. Rafieepour A, Azari MR, Khodagholi F, Jaktaji JP, Mehrabi Y, Peirovi H. The effect of single and combined exposures to magnetite and polymorphous silicon dioxide nanoparticles on the human A₅₄₉ cell line: in vitro study. *Environ Sci Pollut Res Int.* 2019 Nov;26(31):31752-31762.
42. Jameie SB, Mesgar S, Aliaghaei A, Raoofi A, Amini M, Khodagholi F, Danyali S, Sorraya M, Sadeghi Y. Neuroprotective effect of exogenous melatonin on the noradrenergic neurons of adult male rats' locus coeruleus nucleus following REM sleep deprivation. *J Chem Neuroanat.* 2019 Oct;100:101656.

43. Aminyavari S, Zahmatkesh M, Khodaghali F, Sanati M. Anxiolytic impact of Apelin-13 in a rat model of Alzheimer's disease: Involvement of glucocorticoid receptor and FKBP5. *Peptides*. 2019 Aug;118:170102.
44. Moslemi, M., Motamedi, F., Asadi, S., & Khodaghali, F. Peroxisomal Malfunction Caused by Mitochondrial Toxin 3-NP: Protective Role of Oxytocin. *Iranian Journal of Pharmaceutical Research*. 2019 Winter;18(1):296-307.
45. Hosseinzadeh M, Pournbadie HG, Khodaghali F, Daftari M, Naderi N, Motamedi F. Preconditioning with toll-like receptor agonists attenuates seizure activity and neuronal hyperexcitability in the pilocarpine rat model of epilepsy. *Neuroscience*. 2019 Jun 1;408:388-399.
46. Zarandi, S. M., Shahsavani, A., Khodaghali, F., & Fakhri, Y. Alzheimer and depressive cognitive-like behaviors in male and female rats: A new method for exposure to ambient air pollution. *MethodsX*. 2019 Mar 28;6:690-703.
47. Sanati M, Khodaghali F, Aminyavari S, Ghasemi F, Gholami M, Kebriaeezadeh A, Sabzevari O, Hajipour MJ, Imani M, Mahmoudi M, Sharifzadeh M. Impact of Gold Nanoparticles on Amyloid β -Induced Alzheimer's Disease in a Rat Animal Model: Involvement of STIM Proteins. *ACS Chem Neurosci*. 2019 May 15;10(5):2299-2309.
48. Rezazadeh, M. A., Mohammadian, Y., Pourahmad, J., Khodaghali, F., Peirovi, H., Mehrabi, Y. & Rafieepour, A. (2019). Individual and combined toxicity of carboxylic acid functionalized multi-walled carbon nanotubes and benzo a pyrene in lung adenocarcinoma cells. *Environmental science and pollution research international*, 26(13), 12709-12719.
49. Dezfouli, M. A., Zahmatkesh, M., Farahmandfar, M., & Khodaghali, F. Melatonin protective effect against amyloid β -induced neurotoxicity mediated by mitochondrial biogenesis; involvement of hippocampal Sirtuin-1 signaling pathway. *Physiology & behavior*, 2019 May 15;204:65-75.
50. Khalifeh S, Khodaghali F, Moghtadaei M, Behvarmanesh A, Kheradmand A, Ghazvini H. Effects of Maternal Deprivation on Anxiety, Depression, and Empathy in Male and Female Offspring of Wistar Rats in the Face of Novel Objects. *Galen Med J*. 2019 Jan 1;8:e1093
51. Maghami, S., Zardooz, H., Khodaghali, F., Binayi, F., Saber, R. R., Hedayati, M., ... & Ansari, M. A. (2018). Maternal separation blunted spatial memory formation independent of

- peripheral and hippocampal insulin content in young adult male rats. *PloS one*, 13(10), e0204731.
52. Motesaddi Zarandi S, Shahsavani A, Khodagholi F, Fakhri Y. Concentration, sources and human health risk of heavy metals and polycyclic aromatic hydrocarbons bound PM_{2.5} ambient air, Tehran, Iran. *Environ Geochem Health*. 2019 Jun;41(3):1473-1487.
 53. Maghami, S., Zardoos, H., Khodagholi, F., Binayi, F., Saber, R. R., Hedayati, M., ... & Ansari, M. A. (2018). Maternal separation blunted spatial memory formation independent of peripheral and hippocampal insulin content in young adult male rats. *PloS one*, 13(10), e0204731.
 54. Aminyavari, S., Zahmatkesh, M., Farahmandfar, M., Khodagholi, F., Dargahi, L., & Zarrindast, M. R. (2019). Protective role of Apelin-13 on amyloid β 25–35-induced memory deficit; Involvement of autophagy and apoptosis process. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 89, 322-334.
 55. Khodagholi, Z., Zarifian, T., Soleimani, F., Khoshnood, M. S., & Bakhshi, E. (2018). The Effect of Non-Nutritive Sucking and Maternal Milk Odor on the Independent Oral Feeding in Preterm Infants. *Iranian journal of child neurology*, 12(4), 55-64.
 56. Khaleghzadeh-Ahangar, H., Khodagholi, F., Shaerzadeh, F., & Haghparast, A. (2018). Modulatory role of the intra-accumbal CB1 receptor in protein level of the c-fos and pCREB/CREB ratio in the nucleus accumbens and ventral tegmental area in extinction and morphine seeking in the rats. *Brain research bulletin*, 142, 320-327.
 57. Nikseresht, S., Khodagholi, F., & Ahmadiani, A. (2019). Protective effects of ex-527 on cerebral ischemia–reperfusion injury through necroptosis signaling pathway attenuation. *Journal of cellular physiology*, 234(2), 1816-1826.
 58. Ghorbani, Z., Farahani, R. M., Aliaghaei, A., Khodagholi, F., Meftahi, G. H., Danyali, S., ... & Sadeghi, Y. (2018). Resveratrol Protects Purkinje Neurons and Restores Muscle Activity in Rat Model of Cerebellar Ataxia. *Journal of Molecular Neuroscience*, 65, 35-42.
 59. Ahmadi, H., Boroujeni, M. E., Sadeghi, Y., Abdollahifar, M. A., Khodagholi, F., Meftahi, G. H., ... & Aliaghaei, A. (2018). Sertoli cells avert neuroinflammation-induced cell death and improve motor function and striatal atrophy in rat model of Huntington disease. *Journal of Molecular Neuroscience*, 65(1), 17-27.

60. Rezaei, R., Nasoohi, S., Haghparast, A., Khodaghohi, F., Bigdeli, M. R., & Nourshahi, M. (2018). High intensity exercise preconditioning provides differential protection against brain injury following experimental stroke. *Life sciences*, 207, 30-35.
61. Ebrahimi, M. J., Aliaghaei, A., Boroujeni, M. E., Khodaghohi, F., Meftahi, G., Abdollahifar, M. A. & Sadeghi, Y. (2018). Human umbilical cord matrix stem cells reverse oxidative stress-induced cell death and ameliorate motor function and striatal atrophy in rat model of Huntington disease. *Neurotoxicity research*, 34(2), 273-284.
62. Khatami, L., Khodaghohi, F., & Motamedi, F. (2018). Reversible inactivation of interpeduncular nucleus impairs memory consolidation and retrieval but not learning in rats: A behavioral and molecular study. *Behavioural brain research*, 342, 79-88.
63. Kachooei, E., Mozaffarian, F., Khodaghohi, F., Sadeghi, P., Karami, L., Ghasemi, A., ... & Moosavi-Movahedi, A. A. (2018). Paclitaxel inhibited lysozyme fibrillation by increasing colloidal stability through formation of "off-pathway" oligomers. *International journal of biological macromolecules*, 111, 870-879.
64. Ryan, F., Khodaghohi, F., Dargahi, L., Minai-Tehrani, D., & Ahmadiani, A. (2018). Temporal pattern and crosstalk of necroptosis markers with autophagy and apoptosis associated proteins in ischemic hippocampus. *Neurotoxicity research*, 34(1), 79-92.
65. Bahaeddin, Z., Yans, A., Khodaghohi, F., & Sahranavard, S. (2017). Dietary supplementation with *Allium hirtifolium* and/or *Astragalus hamosus* improved memory and reduced neuro-inflammation in the rat model of Alzheimer's disease. *Applied Physiology, Nutrition, and Metabolism*, 43(6), 558-564.
66. Arsalandeh, F., Khodaghohi, F., Ahmadian, S., Foolad, F., Mohammadi Kamsorkh, H., Moridi Farimani, M., & Shaerzadeh, F. (2019). Prevention of recognition memory loss and moderation of mitochondrial dynamic tendency toward fusion by flavone derivatives in A β -injected rats: a comparison between two flavonoids with different polarity. *Nutritional neuroscience*, 22(4), 295-301.
67. Memariani, Z., Hajimahmoodi, M., Minaee, B., Khodaghohi, F., Yans, A., Rahimi, R., ... & Sharifzadeh, M. (2017). Protective effect of a polyherbal traditional formula consisting of *Rosa damascena* Mill., *Glycyrrhiza glabra* L. and *Nardostachys jatamansi* DC., against ethanol-induced gastric ulcer. *Iranian journal of pharmaceutical research: IJPR*, 16(2), 694.

68. Nasoohi, S., Simani, L., Khodaghohi, F., Nikseresht, S., Faizi, M., & Naderi, N. (2019). Coenzyme Q10 supplementation improves acute outcomes of stroke in rats pretreated with atorvastatin. *Nutritional neuroscience*, 22(4), 264-272.
69. Rezaei, R., Nourshahi, M., Khodaghohi, F., Haghparast, A., Nasoohi, S., Bigdeli, M., & Ashabi, G. (2017). Differential impact of treadmill training on stroke-induced neurological disorders. *Brain injury*, 31(13-14), 1910-1917.
70. Salehpour, M., Khodaghohi, F., Zeinaddini Meymand, A., Nourshahi, M., & Ashabi, G. (2017). Exercise training with concomitant nitric oxide synthase inhibition improved anxiogenic behavior, spatial cognition, and BDNF/P70S6 kinase activation in 20-month-old rats. *Applied Physiology, Nutrition, and Metabolism*, 43(1), 45-53.
71. Khodaghohi, F., Shaerzadeh, F., & Montazeri, F. (2018). Mitochondrial Aconitase in Neurodegenerative Disorders: Role of a Metabolism-related Molecule in Neurodegeneration. *Current drug targets*, 19(8), 973-985.
72. Nikseresht, S., Khodaghohi, F., Dargahi, L., & Ahmadiani, A. (2017). Necroptosis resumes apoptosis in hippocampus but not in frontal cortex. *Journal of cellular biochemistry*, 118(12), 4628-4638.
73. MohseniBandpi, A., Eslami, A., Shahsavani, A., Khodaghohi, F., & Alinejad, A. (2017). Physicochemical characterization of ambient PM_{2.5} in Tehran air and its potential cytotoxicity in human lung epithelial cells (A549). *Science of the Total Environment*, 593, 182-190.
74. Karbaschi, R., Zardooz, H., Khodaghohi, F., Dargahi, L., Salimi, M., & Rashidi, F. (2017). Maternal high-fat diet intensifies the metabolic response to stress in male rat offspring. *Nutrition & metabolism*, 14(1), 20.
75. Ramezani, M., Darbandi, N., Khodaghohi, F., & Hashemi, A. (2016). Myricetin protects hippocampal CA3 pyramidal neurons and improves learning and memory impairments in rats with Alzheimer's disease. *Neural regeneration research*, 11(12), 1976.
76. Ashabi, G., Sarkaki, A., Khodaghohi, F., Zareh Shahamati, S., Goudarzvand, M., Farbood, Y., & Khalaj, L. (2016). Subchronic metformin pretreatment enhances novel object recognition memory task in forebrain ischemia: behavioural, molecular, and electrophysiological studies. *Canadian journal of physiology and pharmacology*, 95(4), 388-395.

77. Salimi, M., Zardoos, H., Khodaghali, F., Rostamkhani, F., & Shaerzadeh, F. (2016). High-fat diet with stress impaired islets' insulin secretion by reducing plasma estradiol and pancreatic GLUT2 protein levels in rats' proestrus phase. *J Physiol Pharmacol*, *67*, 653-66
78. BonakdarYazdi, B., Khodaghali, F., Shaerzadeh, F., Sharifzadeh, A., Ahmadi, R., Sanati, M., & Taghizadeh, G. (2017). The effect of arsenite on spatial learning: Involvement of autophagy and apoptosis. *European journal of pharmacology*, *796*, 54-61.
79. Azimi, L., Kachooeian, M., Khodaghali, F., Yans, A., Heysieattalab, S., Vakilzadeh, G., ... & Sharifzadeh, M. (2016). Protective effects of salicylate on PKA inhibitor (H-89)-induced spatial memory deficit via lessening autophagy and apoptosis in rats. *Pharmacology Biochemistry and Behavior*, *150*, 158-169.
80. Pourbadie, H. G., Naderi, N., Delavar, H. M., Hosseinzadeh, M., Mehranfard, N., Khodaghali, F. & Motamedi, F. (2017). Decrease of high voltage Ca²⁺ currents in the dentate gyrus granule cells by entorhinal amyloidopathy is reversed by calcium channel blockade. *European journal of pharmacology*, *794*, 154-161.
81. Fakharnia, F., Khodaghali, F., Dargahi, L., & Ahmadiani, A. (2017). Prevention of cyclophilin D-mediated mPTP opening using cyclosporine-A alleviates the elevation of necroptosis, autophagy and apoptosis-related markers following global cerebral ischemia-reperfusion. *Journal of Molecular Neuroscience*, *61*(1), 52-60.
82. Simani, L., Naderi, N., Khodaghali, F., Mehrpour, M., & Nasoohi, S. (2017). Association of long-term atorvastatin with escalated stroke-induced neuroinflammation in rats. *Journal of Molecular Neuroscience*, *61*(1), 32-41.
83. Khoshneviszadeh, M., Rahimian, R., Fakhfour, G., Payandemehr, B., Khodaghali, F., Mehr, S. E., & Dehpour, A. R. (2016). Oxytocin is involved in the proconvulsant effects of Sildenafil: Possible role of CREB. *Toxicology letters*, *256*, 44-52.
84. Nassireslami, E., Nikbin, P., Amini, E., Payandemehr, B., Shaerzadeh, F., Khodaghali, F., ... & Sharifzadeh, M. (2016). How sodium arsenite improve amyloid β -induced memory deficit?. *Physiology & behavior*, *163*, 97-106.
85. Siahposht-Khachaki, A., Fatahi, Z., Yans, A., Khodaghali, F., & Haghparast, A. (2017). Involvement of AMPA/kainate glutamate receptor in the extinction and reinstatement of morphine-induced conditioned place preference: a behavioral and molecular study. *Cellular and molecular neurobiology*, *37*(2), 315-328.

86. Shariatpanahi, M., Khodaghali, F., Ashabi, G., Bonakdar Yazdi, B., Hassani, S., Azami, K., & Sharifzadeh, M. (2016). The involvement of protein kinase G inhibitor in regulation of apoptosis and autophagy markers in spatial memory deficit induced by A β . *Fundamental & clinical pharmacology*, 30(4), 364-375
87. Nikseresht S, Khodaghali F, Nategh M, Dargahi L., RIP1 Inhibition Rescues from LPS-Induced RIP3-Mediated Programmed Cell Death, Distributed Energy Metabolism and Spatial Memory Impairment, *J Mol Neurosci*. 2015 Jul 9.
88. Amini E, Nassireslami E, Payandemehr B, Khodaghali F, Foolad F, Khalaj S, Hamedani MP, Azimi L, Sharifzadeh M., Paradoxical role of PKA inhibitor on amyloid β -induced memory deficit, *Physiol Behav*. 2015 May 30;149:76-85.
89. Kamalinia G, Khodaghali F, Shaerzadeh F, Tavssolian F, Chaharband F, Atyabi F, Sharifzadeh M, Amini M, Dinarvand R., Cationic Albumin-Conjugated Chelating Agent as a Novel Brain Drug Delivery System in Neurodegeneration, *Chem Biol Drug Des*. 2015 May 14.
90. Arsalandeh F, Ahmadian S, Foolad F, Khodaghali F, Farimani MM, Shaerzadeh F., Beneficial Effect of Flavone Derivatives on A β -Induced Memory Deficit Is Mediated by Peroxisome Proliferator-Activated Receptor γ Coactivator 1 α : A Comparative Study, *Int J Toxicol*. 2015 May;34(3):274-83.
91. Sarkaki A, Farbood Y, Badavi M, Khalaj L, Khodaghali F, Ashabi G., Metformin improves anxiety-like behaviors through AMPK-dependent regulation of autophagy following transient forebrain ischemia., *Metab Brain Dis*. 2015 May 5.
92. Jafari A, Noursadeghi E, Khodaghali F, Saghiri R, Sauve R, Aliaghaei A, Eliassi A., Brain mitochondrial ATP-insensitive large conductance Ca(+2)-activated K(+) channel properties are altered in a rat model of amyloid- β neurotoxicity, *Exp Neurol*. 2015 Jul;269:8-16.
93. Pourbadie HG, Naderi N, Mehranfard N, Janahmadi M, Khodaghali F, Motamedi F., Preventing effect of L-type calcium channel blockade on electrophysiological alterations in dentate gyrus granule cells induced by entorhinal amyloid pathology, *PLoS One*. 2015 Feb 17;10(2):e0117555.
94. Aliaghaei A, Digaleh H, Khodaghali F, Ahmadiani A., Encapsulated Choroid Plexus Epithelial Cells Actively Protect Against Intrahippocampal A β -induced Long-Term

- Memory Dysfunction; Upregulation of Effective Neurogenesis with the Abrogated Apoptosis and Neuroinflammation, *J Mol Neurosci*. 2015 Jul;56(3):708-21.
95. Zare N, Motamedi F, Digaleh H, Khodaghoh F, Maghsoudi N., Collaboration of geldanamycin-activated P70S6K and Hsp70 against beta-amyloid-induced hippocampal apoptosis: an approach to long-term memory and learning, *Cell Stress Chaperones*. 2015 Mar;20(2):309-19.
96. Nategh M, Nikseresht S, Khodaghoh F, Motamedi F., Nucleus incertus inactivation impairs spatial learning and memory in rats, *Physiol Behav*. 2015 Feb;139:112-20.
97. Ashabi G, Khalaj L, Khodaghoh F, Goudarzvand M, Sarkaki A., Pre-treatment with metformin activates Nrf2 antioxidant pathways and inhibits inflammatory responses through induction of AMPK after transient global cerebral ischemia, *Metab Brain Dis*. 2015 Jun;30(3):747-54.
98. Ahadi R, Khodaghoh F, Daneshi A, Vafae A, Mafi AA, Jorjani M., Diagnostic value of Serum Level of GFAP, NF-H and NSE Compared with Clinical Findings in Severity Assessment of Human Traumatic Spinal Cord Injury, *Spine (Phila Pa 1976)*. 2014 Oct 22. [Epub ahead of print].
99. Shaerzadeh F, Motamedi F, Khodaghoh F., Inhibition of akt phosphorylation diminishes mitochondrial biogenesis regulators, tricarboxylic acid cycle activity and exacerbates recognition memory deficit in rat model of Alzheimer's disease, *Cell Mol Neurobiol*. 2014 Nov;34(8):1223-33.
100. Vakilzadeh G, Khodaghoh F, Ghadiri T, Darvishi M, Ghaemi A, Noorbakhsh F, Gorji A, Sharifzadeh M., Protective Effect of a cAMP Analogue on Behavioral Deficits and Neuropathological Changes in Cuprizone Model of Demyelination, *Mol Neurobiol*. 2014 Aug 17. [Epub ahead of print].
101. Ghorbanpoor S, Garcia-Segura LM, Haeri-Rohani A, Khodaghoh F, Jorjani M., Aromatase inhibition exacerbates pain and reactive gliosis in the dorsal horn of the spinal cord of female rats caused by spinothalamic tract injury, *Endocrinology*. 2014 Nov;155(11):4341-55.
102. Movaghati S, Moosavi-Movahedi AA, Khodaghoh F, Digaleh H, Kachooei E, Sheibani N., Sodium dodecyl sulphate modulates the fibrillation of human serum albumin in a dose-dependent manner and impacts the PC12 cells retraction, *Colloids Surf B Biointerfaces*. 2014 Oct 1;122:341-9.

103. Sadeghimahalli F, Karbaschi R, Zardooz H, Khodagholi F, Rostamkhani F., Effect of early life stress on pancreatic isolated islets' insulin secretion in young adult male rats subjected to chronic stress, *Endocrine*. 2015 Mar;48(2):493-503.
104. Khalifeh S, Oryan S, Digaleh H, Shaerzadeh F, Khodagholi F, Maghsoudi N, Zarrindast MR., Involvement of Nrf2 in development of anxiety-like behavior by linking Bcl2 to oxidative phosphorylation: estimation in rat hippocampus, amygdala, and prefrontal cortex, *J Mol Neurosci*. 2015 Feb;55(2):492-9.
105. Fatahi Z, Zeighamy Alamdary S, Khodagholi F, Shahamati SZ, Razavi Y, Haghparast A., Effect of physical stress on the alteration of mesolimbic system apoptotic factors in conditioned place preference paradigm, *Pharmacol Biochem Behav*. 2014 Sep;124:231-7.
106. Ghadiri T, Sharifzadeh M, Khodagholi F, Modarres Mousavi SM, Hassanzadeh G, Zarrindast MR, Gorji A., A novel traumatic brain injury model for induction of mild brain injury in rats, *J Neurosci Methods*. 2014 Aug 15;233:18-27.
107. Sefidbakht Y, Moosavi-Movahedi AA, Hosseinkhani S, Khodagholi F, Torkzadeh-Mahani M, Foolad F, Faraji-Dana R., Effects of 940 MHz EMF on bioluminescence and oxidative response of stable luciferase producing HEK cells, *Photochem Photobiol Sci*. 2014 Jul;13(7):1082-92.
108. Rouhani M, Goliaei B, Khodagholi F, Nikoofar A., Lithium increases radiosensitivity by abrogating DNA repair in breast cancer spheroid culture, *Arch Iran Med*. 2014 May;17(5):352-60.
109. Alani B, Salehi R, Sadeghi P, Khodagholi F, Digaleh H, Jabbarzadeh-Tabrizi S, Zare M, Korbekandi H., Silencing of Hsp70 intensifies 6-OHDA-induced apoptosis and Hsp90 upregulation in PC12 cells, *J Mol Neurosci*. 2015 Jan;55(1):174-83.
110. Kachooei E, Moosavi-Movahedi AA, Khodagholi F, Mozaffarian F, Sadeghi P, Hadi-Alijanvand H, Ghasemi A, Saboury AA, Farhadi M, Sheibani N., Inhibition study on insulin fibrillation and cytotoxicity by paclitaxel, *J Biochem*. 2014 Jun;155(6):361-73. 25.
111. Aliaghaei, A., Khodagholi, F., Ahmadiani, A., Conditioned Media of Choroid Plexus Epithelial Cells Induces Nrf2-Activated Phase II Antioxidant Response Proteins and Suppresses Oxidative Stress-Induced Apoptosis in PC12 Cells. *J Mol Neurosci* 2014 Aug;53(4):617-25.

112. Rouhani M, Goliaei B, Khodagholi F, Nikoofar A., Antimanic drug sensitizes breast cancer cell line to ionizing radiation. *General Physiology and Biophysics*. 2014,33(2):235-42. 27.
113. Ashabi G, Khodagholi F, Khalaj L, Goudarzvand M, Nasiri M. Activation of AMP-activated protein kinase by metformin protects against global cerebral ischemia in male rats: Interference of AMPK/PGC-1 α pathway. *Metab Brain Dis*. 2014 . Mar;29(1):47-58. 28.
114. Haghparast, A., Fatahi, Z., Alamdary, S.Z., Khodagholi, F., Changes in apoptotic factors in hypothalamus and hippocampus after acute and subchronic stress induction during conditioned place preference paradigm. *Excli Journals* 2013;12:1001-1016. 29.
115. Ansari, N., Khodagholi, F., Natural products as promising drug candidates for the treatment of Alzheimer's disease: molecular mechanism aspect. *Curr Neuropharmacol*. 2013 Jul;11(4):414-29. 30.
116. Haghparast, A., Fatahi, Z., Alamdary, S.Z., Reisi, Z., Khodagholi, F., Changes in the Levels of p-ERK, p-CREB, and c-fos in Rat Mesocorticolimbic Dopaminergic System After Morphine-Induced Conditioned Place Preference: The Role of Acute and Subchronic Stress. *Cell Mol Neurobiol*. 2013 Dec 1.
117. Razavi, Y., Alamdary, S.Z., Katebi, S.N., Khodagholi, F., Haghparast, A., Morphine-Induced Apoptosis in the Ventral Tegmental Area and Hippocampus After the Development but not Extinction of Reward-Related Behaviors in Rats. *Cell Mol Neurobiol*. 2013 Nov 27. 32.
118. Sardari, M., Rezaeifard, A., Khodagholi, F., Zarrindast, M.R., Basolateral amygdala GABA-A receptors mediate stress-induced memory retrieval impairment in rats. *Int J Neuropsychopharmacol*. 2013 Nov 26:1-10.
119. Alani, B., Salehi, R., Sadeghi, P., Zare, M., Khodagholi, F., Arefian, E., Hakemi, M.G., Digaleh, H., Silencing of Hsp90 Chaperone Expression Protects Against 6-Hydroxydopamine Toxicity in PC12 Cells. *J Mol Neurosci*. 2013 Nov 15.
120. Shaerzadeh, F., Motamedi, F., Minai-Tehrani, D., Khodagholi, F., Monitoring of neuronal loss in the hippocampus of A β -injected rat: Autophagy, mitophagy, and mitochondrial biogenesis stand against apoptosis. *Neuromolecular Med*. 2013 Nov 8.
121. Katebi, S.N., Razavi, Y., Zeighami Alamdary, S., Khodagholi, F., Haghparast, A., Morphine could increase apoptotic factors in the nucleus accumbens and prefrontal cortex of rat brain's reward circuitry. *Brain Res*. 2013 Dec 2;1540:1-8.

122. Kamalinia, G., Khodaghali, F., Atyabi, F., Amini, M., Shaerzadeh, F., Sharifzadeh, M., Dinarvand, R., Enhanced brain delivery of deferasirox-lactoferrin conjugates for iron chelation therapy in neurodegenerative disorders: in vitro and in vivo studies. *Mol Pharm.* 2013 Dec 2;10(12):4418-31.
123. Foolad, F., Khodaghali, F., Dietary supplementation with *Salvia sahendica* attenuates acetylcholinesterase activity and increases mitochondrial transcription factor A and antioxidant proteins in the hippocampus of amyloid beta-injected rats. *J Pharm Pharmacol.* 2013 Oct;65(10):1555-62.
124. Alamdary, S.Z., H. Digaleh, and F. Khodaghali, Dual Contradictory Effect of H-89 on Neuronal Retraction, Death and Inflammation in Differentiated PC12 Cells Subjected to Oxidative Stress. *J Mol Neurosci.* 2013 Nov;51(3):1030-7.
125. Khalaj, L., Nejad, S.C., Mohammadi, M., Sarraf Zadeh, S., Pour, M.H., Ashabi, G., Khodaghali, F., Ahmadiani, A., Assessing competence of broccoli consumption on inflammatory and antioxidant pathways in restraint-induced models: estimation in rat hippocampus and prefrontal cortex. *Biomed Res Int.* 2013: p. 590379.
126. Khalaj, L., Chavoshi Nejad, S., Mohammadi, M., Sarraf Zadeh, S., Hossein Pour, M., Ahmadiani, A., Khodaghali, F., Ashabi, G., Zeighamy Alamdary, S., Samami S., Gemfibrozil pretreatment proved protection against acute restraint stress-induced changes in the male rats' hippocampus. *Brain Res.* 1527: p. 117-30.
127. Khodaghali F., et al., Involvement of molecular chaperones and the transcription factor Nrf2 in neuroprotection mediated by para-substituted-4,5-diaryl-3-thiomethyl-1,2,4-triazines. *Cell Stress Chaperones.* 2012 Jul; 17(4): 409–422.
128. Ansari, N., Hadi-Alijanvand, H., Sabbaghian, M., Kiaei, M., Khodaghali, F., Interaction of 2-APB, dantrolene, and TDMT with IP3R and RyR modulates ER stress-induced programmed cell death I and II in neuron-like PC12 cells: an experimental and computational investigation. *J Biomol Struct Dyn.* 2013 Jul 8.
129. Digaleh, H., M. Kiaei, and F. Khodaghali, Nrf2 and Nrf1 signaling and ER stress crosstalk: implication for proteasomal degradation and autophagy. *Cell Mol Life Sci.* 2013 Dec; 70(24): 4681-94.
130. Riahi, E., F. Khodaghali, and A. Haghparast, Role of dorsal hippocampal orexin-1 receptors in associating morphine reward with contextual stimuli. *Behav Pharmacol.* 24(4): p. 237-48.

131. Ashabi, G., et al., Time course study of Abeta formation and neurite outgrowth disruption in differentiated human neuroblastoma cells exposed to H₂O₂: Protective role of autophagy. *Toxicol In Vitro*. 27(6): p. 1780-8.
132. Sarvestani, N.N., et al., Involvement of p-CREB and phase II detoxifying enzyme system in neuroprotection mediated by the flavonoid calycopterin isolated from *Dracocephalum kotschyi*. *Phytomedicine*. 20(10): p. 939-46.
133. Fariba Khodagholi, Ghorbangol Ashabi, Dietary supplementation with *Salvia Sahendica* attenuates memory deficits, modulates CREB and its down-stream molecules and decreases apoptosis in amyloid beta-injected rats. *Behav Brain Res*. 2013 Mar 15; 241: 62-9.
134. Shahnaz Babaei Abraki, Leila Khalaj, Fatemeh Shaerzadeh, Fariba Khodagholi, Simultaneous Inhibition of COX-2 and Activation of PPAR- γ Resulted in the Same Level and Pattern of Neuroprotection as They were Targeted Separately. *J Mol Neurosci*. 2013 Jan; 49(1): 116-29.
135. Gholamipour-Badie H, Naderi N, Khodagholi F, Shaerzadeh F, Motamedi F. L-type calcium channel blockade alleviates molecular and reversal spatial learning and memory alterations induced by entorhinal amyloid pathology in rats. *Behave Brain Res*. 2012 Sep 29. pii: S0166-4328(12)00631-6.
136. Niloufar Ansari, Fariba Khodagholi. Molecular mechanism aspect of ER stress in Alzheimer's disease: Current approaches and future strategies. *Curr Drug Targets*. 2013 Jan 1; 14(1): 114-22.
137. Ghorbangol Ashabi, Shabnam Zeighamy Alamdary, Mahmoudreza Ramin, Fariba Khodagholi. Reduction of hippocampal apoptosis by intracerebroventricular administration of ERK and / or P38 inhibitors in A β rat model of Alzheimer,s disease: involvement of Nrf2 anf NF- κ B. *Basic Clin Pharmacol Toxicol*. 2012 Aug 23. [Epub ahead of print].
138. Ghazaleh Rafatian, Fariba Khodagholi, Mahdi Moridi Farimani, Shahnaz Babaei Abraki , Mossa Gardaneh. Increase of autophagy and attenuation of apoptosis by Salvigenin promote survival of SH-SY5Y cells following treatment with H₂O₂. *Mol Cell Biochem*. 2012 Dec; 371(1-2): 9-22.
139. Ehsan Kachoei, Ali Akbar Moosavi-Movahedi, Fariba Khodagholi, Hassan Ramshini, Fatemeh Shaerzadeh, Nader Sheibani. Oligomeric Forms of Insulin Amyloid

- Aggregation Disrupt Outgrowth and Complexity of Neuron-Like PC12 Cells. *Plos One*. 2012 Jul; 7(7): e41344.
140. Yenki P, Khodagholi F, Shaerzadeh F. Inhibition of Phosphorylation of JNK Suppresses A β -Induced ER Stress and Upregulates Prosurvival Mitochondrial Proteins in Rat Hippocampus. *J Mol Neuro*. 2013 Feb; 49(2): 262-9.
141. Alamdary SZ, Khodagholi F, Shaerzadeh F, Ansari N, Sonboli A, Tusi SK. *S. choleroleuca*, *S. mirzayanii* and *S. santolinifolia* Protect PC12 cells from H₂O₂-induced apoptosis by interfering intrinsic pathway. *Cytotechnology*. 2012 Aug; 64(4): 403-19.
142. Fariba Khodagholi, Solaleh Khoramian Tusi, Shabnam Zeighamy Alamdary, Mohsen Amini, Niloufar Ansari. Thiomethyl-5,6-(dimethoxyphenyl)-1,2,4-triazine improves neurite outgrowth and modulates MAPK phosphorylation and HSPs expression in H₂O₂ exposed PC12 cells. *Toxicology in Vitro*. 2012 Sep; 26(6): 907-14.
143. Khodagholi. F, Ansari. N, Amini. M, Khoramian Tusi. S, Involvement of molecular chaperones and the transcription factor Nrf2 in neuroprotection mediated by para-substituted-4, 5-diaryl 1,3,4-thiomethyl 1,2,4-triazines. *Cell stress and chaperones*. 2012; 17(4):409-22.
144. Nima naderi, Mohsen Majidi, Zahra mousavi, Solaleh khoramian tusi, Zahra mansouri, Fariba khodagholi. The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin- induced pain related behavior and spinal cord IL1- β expression in rats. *neurochem Res*. 2012; 37(4):778-85.
145. Ashabi G, Ramin M, Azizi P, Taslimi Z, Alamdary SZ, Haghparast A, Ansari N, Motamedi F, Khodagholi F. ERK and p38 inhibitors attenuate memory deficits and increase CREB phosphorylation and PGC-1 α levels in A β -injected rats. *Behav Brain Res*. 2012; 15;232(1):165-73.
146. Moridi Farimani M, Sarvestani NN, Ansari N, Khodagholi, F. Calycopterin Promotes Survival and Outgrowth of Neuron-Like PC12 Cells by Attenuation of Oxidative- and ER-
147. Stress-Induced Apoptosis along with Inflammatory Response. *Chem Res Toxicol*. 2012; 19;24(12):2280-92.
148. Eftekharzadeh B, Ramin M, Khodagholi F, Moradi S, Tabrizian K, Sharif R, Azami K, Beyer C, Sharifzadeh M. Inhibition of PKA attenuates memory deficits induced by β -amyloid (1-

- 42), and decreases oxidative stress and NF- κ B transcription factors. *Behav Brain Res.* 2012; 1:301-308.
149. Shaerzadeh F, Alamdary SZ, Esmaeili MA, Sarvestani NN, Khodagholi F. Neuroprotective Effect of *Salvia sahendica* is Mediated by Restoration of Mitochondrial Function and Inhibition of Endoplasmic Reticulum Stress. *Neurochem Res.* 2011; 36: 2216-2226.
150. Maghsoudi AH, Khodagholi F, Hadi-Alijanvand H, Esfandiarei M, Sabbaghian M, Zakeri Z, Shaerzadeh F, Abtahi S, Maghsoudi N. Homology modeling, docking, molecular dynamics simulation, and structural analyses of coxsakievirus B3 2A protease: An enzyme involved in the pathogenesis of inflammatory myocarditis. *Int J Bio Macromol.* 2011; 1;49(4):487-92.
151. Asadi S, Khodagholi F, Esmaeili MA, Tusi S K, Ansari N, Shaerzadeh F, Sonboli A, Ghahremanzamaneh M. Chemical composition analysis, antioxidant, antiglycating activities and neuroprotective effects of *S. choleroleuca*, *S. mirzayanii* and *S. santolinifolia* from Iran. *Am J Chin Med.* 2011; 39: 615-38.
152. Tusi SK, Khalaj L, Ashabi G, Kiaei M, Khodagholi F. Alginate oligosaccharide protects against endoplasmic reticulum- and mitochondrial-mediated apoptotic cell death and oxidative stress. 2011; *Biomaterials*; 32(23):5438-58.
153. Khodagholi F, Tusi SK. Stabilization of Nrf2 by tBHQ prevents LPS-induced apoptosis in differentiated PC12 cells. *Mol Cell Biochem.* 2011; 354(1-2):97-112.
154. Shaerzadeh F, Ahmadiani A, Esmaeili MA, Ansari N, Asadi S, Tusi SK, Sonboli A, Ghahremanzamaneh M, Khodagholi F. Antioxidant and antiglycating activities of *Salvia sahendica* and its protective effect against oxidative stress in neuron-like PC12 cells. *J Nat Med.* 2011; 65(3-4):455-65.
155. Ansari N, Khodagholi F, Amini M. 2-Ethoxy-4,5-diphenyl-1,3-oxazine-6-one activates the Nrf2/HO-1 axis and protects against oxidative stress-induced neuronal death. *Eur J Pharmacol.* 2011; 658: 84-90.
156. Joodi G, Ansari N, Khodagholi F. Chitoooligosaccharide-mediated neuroprotection is associated with modulation of Hsps expression and reduction of MAPK phosphorylation. *Int J Biol Macromol.* 2011; 1;48(5):726-35.

157. Ansari N, Khodagholi F, Amini M, Shaerzadeh F. Attenuation of LPS- induced apoptosis in NGF-differentiated PC12 cells via NF- κ B pathway and regulation of cellular redox status by an oxazine derivative. *Biochimie*. 2011; 93: 899-908.
158. Haghparast A, Taslimi Z, Ramin M, Azizi P, Khodagholi F, Hassanpour-Ezatti M. Changes in phosphorylation of CREB, ERK, and c-fos induction in rat ventral tegmental area, hippocampus and prefrontal cortex after conditioned place preference induced by chemical stimulation of lateral hypothalamus. *Behav Brain Res*. 2011; 20;220(1):112-8.
159. Nouhi F, Tusi SK, Abdi A, Khodagholi F. Dietary Supplementation with tBHQ, an Nrf2 Stabilizer Molecule, Confers Neuroprotection Against Apoptosis in Amyloid β -Injected Rat. *Neurochem Res*. 2011; 36(5):870-8.
160. Khalaj L, Peirovi H, Khodagholi F, Abdi A, Dargahi L, Ahmadiani A. Acute 17 β -estradiol pretreatment protects against abdominal aortic occlusion induced spinal cord ischemic-reperfusion injury. *Neurochem. Res*. 2011; 36:268-80.
161. Ramin M, Azizi P, Motamedi F, Haghparast A, Khodagholi F. Inhibition of JNK phosphorylation reverses memory deficit induced by β -amyloid (1-42) associated with decrease of apoptotic factors. *Behav Brain Res*. 2011; 217:424-31.
162. Ansari N, Khodagholi F, Ramin MR, Amini M, Irannejad H, Dargahi L, Amirabad AD. Inhibition of LPS-induced apoptosis in differentiated-PC12 cells by new triazine derivatives through NF- κ B-mediated suppression of COX-2. *Neurochem Int*. 2010; 57:958-68.
163. Khodagholi F, Farahmand S, Tusi SK. Designing a highly efficient chemical chaperone system using chitosan-coated alginate. *Protein J*. 2010; 29:343-9. 77. Irannejad H, Amini M, Khodagholi F, Ansari N, Tusi SK, Sharifzadeh M, Shafiee A. Synthesis and in vitro evaluation of novel 1,2,4-triazine derivatives as neuroprotective agents. *Bioorg Med Chem*. 2010; 18:4224-30.
164. Tusi SK, Ansari N, Amini M, Amirabad AD, Shafiee A, Khodagholi F. Attenuation of NF- κ B and activation of Nrf2 signaling by 1,2,4-triazine derivatives, protects neuron-like PC12 cells against apoptosis. *Apoptosis*. 2010; 15:738-51.
165. Asadi S, Ahmadiani A, Esmaeili MA, Sonboli A, Ansari N, Khodagholi F. In vitro antioxidant activities and an investigation of neuroprotection by six *Salvia* species from Iran: A comparative study. *Food Chem Toxicol*. 2010; 48:1341-9.

166. Eftekharzadeh B, Hamed J, Mohammadipanah F, Khodaghoh F, Maghsoudi N, Klenk HP. Inhibition of oxidative stress-induced amyloid beta formation in NT2 neurons by culture filtrate of a strain of *Streptomyces antibioticus*. *Appl Microbiol Biotechnol*. 2010; 86:1805-11.
167. Maghsoudi N, Tafreshi NK, Khodaghoh F, Zakeri Z, Esfandiarei M, Hadi-Alijanvand H, Sabbaghian M, Maghsoudi AH, Sajadi M, Zohri M, Moosavi M, Zeinodini M. Targeting enteroviral 2A protease by a 16-mer synthetic peptide: Inhibition of 2A(pro)-induced apoptosis in a stable Tet-on HeLa cell line. *Virology*. 2010; 399:39-45.
168. Eftekharzadeh B, Maghsoudi N, Khodaghoh F. Stabilization of transcription factor Nrf2 by tBHQ prevents oxidative stress-induced amyloid beta formation in NT2N neurons. *Biochimie*. 2010; 2:245-53.
169. Eftekharzadeh B, Khodaghoh F, Abdi A, Maghsoudi N, Alginate protects NT2 neurons against H₂O₂-induced neurotoxicity. *Carbohydrate Polymers* 2010; 79:1063-1072.
170. Khodaghoh F, Eftekharzadeh B, Maghsoudi N, Rezaei PF. Chitosan prevents oxidative stress-induced amyloid beta formation and cytotoxicity in NT2 neurons: involvement of transcription factors Nrf2 and NF-kappaB. *Mol Cell Biochem*. 2009; 337:39-51.
171. Rezaei N, Khodaghoh F. Evaluation of chaperone-like activity of alginate: microcapsule and water-soluble forms. *Protein J*. 2009; 28:124-30.
172. Maghsoudi N, Khodaghoh F, Sadjadi M, Zeinodini M, Sabbaghian M. Purification and partial characterization of coxsackievirus B3 2A protease expressed in *Escherichia coli*. *Int J Biol Macromol*. 2008; 43:238-44.
173. Khodaghoh F, Eftekharzadeh B, Yazdanparast R. A new artificial chaperone for protein refolding: sequential use of detergent and alginate. *Protein J*. 2008; 27:123-9.
174. Yazdanparast R, Khodaghoh F, Souri E. Alkaline phosphatase refolding assisted by sequential use of oppositely charged detergents: a new artificial chaperone system. *Int J Biol Macromol*. 2008; 42:195-202.
175. Khodaghoh F, Yazdanparast R, Sadeghirizi A. The glycoposphatidylinositol anchor oppositely affects unfolding and refolding of alkaline phosphatase. *J Biomol Struct Dyn*. 2007; 25:189-94.
176. Khodaghoh F, Yazdanparast R. Designing a highly efficient refolding system for alkaline phosphatase using combination of cyclodextrin and Mg²⁺ ion. *Protein J*. 2008; 27:1-6.

177. Khodagholi F, Yazdanparast R. Cooperative effects of artificial chaperone and Mg²⁺ ions on alkaline phosphatase refolding. *Biochem. Eng. J.*, 2007; 36:123-130.
178. Khodagholi F, Eftekharzadeh B, Yazdanparast R. Comparative evaluation of alpha-amylase refolding through two different artificial chaperone systems. *Protein J.* 2007; 26:293-301.
179. Sattarahmady N, Khodagholi F, Moosavi-Movahedi AA, Heli H, Hakimelahi GH. Alginate as an antiglycating agent for human serum albumin. *Int J Biol Macromol.* 2007; 41:180-4.
180. Yazdanparast R, Esmaili MA, Khodagholi F. Control of aggregation in protein refolding: cooperative effects of artificial chaperone and cold temperature. *Int J Biol Macromol.* 2007; 40:126-33.
181. Yazdanparast R, Khodagholi F. Kinetic aspects of alkaline phosphatase refolding in the presence of alpha-cyclodextrin. *Arch Biochem Biophys.* 2006; 446:11-9.
182. Khodagholi F, Yazdanparast R. Artificial chaperone-assisted refolding of GuHCl-denatured alpha-amylase at low temperature: refolding versus aggregation. *Protein J.* 2005; 24:303-13.
183. Yazdanparast R, Khodagholi F, Khodarahmi R. Artificial chaperone-assisted refolding of chemically denatured alpha-amylase. *Int J Biol Macromol.* 2005; 35:257-63.
184. Hamedi J, Khodagholi F, Hassani-Nasab A. Increased erythromycin production by alginate as a medium ingredient or immobilization support in cultures of *Saccharopolyspora erythraea*. *Biotechnol Lett.* 2005; 27:661-4.

Books

Glycobiology, 1391, Tehran University Publication, Fariba Khodagholi, Naghmeh Sattarahmady, Ali Akbar Moosavi-Movahedi

Honors and Awards:

2016 Recipient of Sobouti & Khajehpour prize, Iran

2014 Selected as top researcher, 15th Abureyhan birooni Research Festival, Iran

2012 Recipient of research fellowship of national Elit fund, Iran

2011 Recipient of Young scientist travel grant, ICAD congress, France.

2010 Selected as top assistant professor of Shahid Beheshti University of Medical Sciences

2008-2009 Recipient of Young Scientist Research Fellowship of National Elite Fund, Iran.

2009 Recipient of Young scientist travel grant, ICAD congress, Austria.

2008 Selected as Young scientist, 13th Razi Research Festival on Medical Sciences, Iran

2004 Recipient of Young scientist travel grant, EBEC congress, France.

2004 Recipient of first prize, Biology and biotechnology congress, Iran.