

## 2020 PubMed Article

- Roles and Interaction of the MAPK Signaling Cascade in A $\beta$ 25-35-Induced Neurotoxicity Using an Isolated Primary Hippocampal Cell Culture System.  
Iloun P, Hooshmandi E, Gheibi S, Kashfi K, Ghasemi R, Ahmadiani A. *Cell Mol Neurobiol*. 2020 Jun 29. doi: 10.1007/s10571-020-00912-4. Online ahead of print. PMID: 32601776
  
- Frontocingulate Dysfunction Is Associated with Depression and Decreased Serum PON1 in Methamphetamine-Dependent Patients.  
Ghavidel N, Khodaghohi F, Ahmadiani A, Khosrowabadi R, Asadi S, Shams J. *Neuropsychiatr Dis Treat*. 2020 Feb 19;16:489-499. doi: 10.2147/NDT.S237528. eCollection 2020. PMID: 32110023 [Free PMC article](#).
  
- Inflammation but not programmed cell death is activated in methamphetamine-dependent patients: Relevance to the brain function.  
Ghavidel N, Khodaghohi F, Ahmadiani A, Khosrowabadi R, Asadi S, Shams J. *Int J Psychophysiol*. 2020 Nov;157:42-50. doi: 10.1016/j.ijpsycho.2020.09.004. Epub 2020 Sep 23. PMID: 32976886
  
- Brain microRNAs dysregulation: Implication for missplicing and abnormal post-translational modifications of tau protein in Alzheimer's disease and related tauopathies.  
Bazrgar M, Khodabakhsh P, Mohagheghi F, Prudencio M, Ahmadiani A. *Pharmacol Res*. 2020 May;155:104729. doi: 10.1016/j.phrs.2020.104729. Epub 2020 Feb 29. PMID: 32126270 Review.
  
- Differential gene expression and stereological analyses of the cerebellum following methamphetamine exposure.  
Eskandarian Boroujeni M, Peirouvi T, Shaerzadeh F, Ahmadiani A, Abdollahifar MA, Aliaghaei A. *Addict Biol*. 2020 Jan;25(1):e12707. doi: 10.1111/adb.12707. Epub 2019 Feb 4. PMID: 30714656
  
- BDNF association study with obsessive-compulsive disorder, its clinical characteristics, and response to fluvoxamine-treatment in Iranian patients.  
Abdolhosseinzadeh S, Alizadeh N, Shams J, Asadi S, Ahmadiani A. *Exp Clin Psychopharmacol*. 2020 Apr;28(2):216-224. doi: 10.1037/pha0000297. Epub 2019 Jun 10. PMID: 31180700
  
- Substrate stiffness affects the morphology and gene expression of epidermal neural crest stem cells in a short term culture.  
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. *Biotechnol Bioeng*. 2020 Feb;117(2):305-317. doi: 10.1002/bit.27208. Epub 2019 Nov 20. PMID: 31654402

□ Fingolimod increases oligodendrocytes markers expression in epidermal neural crest stem cells.

Pournajaf S, Valian N, Mohaghegh Shalmani L, Khodabakhsh P, Jorjani M, Dargahi L. *Eur J Pharmacol.* 2020 Oct 15;885:173502. doi: 10.1016/j.ejphar.2020.173502. Epub 2020 Aug 26. PMID: 32860811

□ Individual Subnuclei of the Rat Anterior Thalamic Nuclei Differently affect Spatial Memory and Passive Avoidance Tasks.

Safari V, Nategh M, Dargahi L, Zibaii ME, Khodaghohi F, Rafiei S, Khatami L, Motamedi F. *Neuroscience.* 2020 Sep 15;444:19-32. doi: 10.1016/j.neuroscience.2020.07.046. Epub 2020 Jul 31. PMID: 32745505

□ Neurogenic differentiation of human dental pulp stem cells by optogenetics stimulation.

Niyazi M, Zibaii MI, Chavoshinezhad S, Hamidabadi HG, Dargahi L, Bojnordi MN, Alizadeh R, Heravi M, Karimi H, Hosseini M, Sadeghi Malvajardi E, Seyednazari M. *J Chem Neuroanat.* 2020 Nov;109:101821. doi: 10.1016/j.jchemneu.2020.101821. Epub 2020 Jun 5. PMID: 32512152

□ Expression patterns of ER $\alpha$ 66 and its novel variant isoform ER $\alpha$ 36 in lactotroph pituitary adenomas and associations with clinicopathological characteristics.

Mahboobifard F, Bidari-Zerehpooch F, Davoudi Z, Panahi M, Dargahi L, Pourgholami MH, Sharifi G, Izadi N, Jorjani M. *Pituitary.* 2020 Jun;23(3):232-245. doi: 10.1007/s11102-020-01029-z. PMID: 32026205

□ Epidermal neural crest stem cell transplantation as a promising therapeutic strategy for ischemic stroke.

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. *CNS Neurosci Ther.* 2020 Jul;26(7):670-681. doi: 10.1111/cns.13370. Epub 2020 Apr 12. PMID: 32281225 [Free PMC article.](#)

□ Extracellular Vesicles as a Neprilysin Delivery System Memory Improvement in Alzheimer's Disease.

Izadpanah M, Dargahi L, Ai J, Asgari Taei A, Ebrahimi Barough S, Mowla SJ, Tavosidi Dana G, Farahmandfar M. *Iran J Pharm Res.* 2020 Spring;19(2):45-60. doi: 10.22037/ijpr.2020.112062.13508. PMID: 33224210 [Free PMC article.](#)

□ 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.

Mohaghegh Shalmani L, Valian N, Pournajaf S, Abbaszadeh F, Dargahi L, Jorjani M. *Mitochondrion.* 2020 May;52:125-134. doi: 10.1016/j.mito.2020.03.002. Epub 2020 Mar 6. PMID: 32151747

□ Cannabidiol modulates the expression of neuroinflammatory factors in stress- and drug-induced reinstatement of methamphetamine in extinguished rats.

Karimi-Haghighi S, Dargahi L, Haghparast A. *Addict Biol.* 2020 Mar;25(2):e12740. doi: 10.1111/adb.12740. Epub 2019 Feb 22. PMID: 30793820

□ 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.

Eskandari N, Boroujeni ME, Abdollahifar MA, Piryaei A, Khodaghohi F, Mirbehbahani SH, Siroosi S, Moghaddam MH, Aliaghaei A, Sadeghi Y. *Neurosci Res.* 2020 Dec 22:S0168-0102(20)30505-8. doi: 10.1016/j.neures.2020.12.002. Online ahead of print. PMID: 33359180

□ BDNF and p-GSK3 $\beta$  in the hippocampus mediate the impairment of delay-based decision making in morphine-dependent rats.

Fatahi Z, Zeinaddini-Meymand A, Karimi-Haghighi S, Haghparast A, Khodaghohi F, Haghparast A. *Neuroreport.* 2020 Dec 9;31(17):1208-1214. doi: 10.1097/WNR.0000000000001535. PMID: 33075004

□ Oxytocin Prevents the Development of 3-NP-Induced Anxiety and Depression in Male and Female Rats: Possible Interaction of OXTR and mGluR2.

Khodaghohi F, Maleki A, Motamedi F, Mousavi MA, Rafiei S, Moslemi M. *Cell Mol Neurobiol.* 2020 Nov 17. doi: 10.1007/s10571-020-01003-0. Online ahead of print. PMID: 33201416

□ Long-term high-fat diet disrupts lipid metabolism and causes inflammation in adult male rats: possible intervention of endoplasmic reticulum stress.

Binayi F, Moslemi M, Khodaghohi F, Hedayati M, Zardooz H. *Arch Physiol Biochem.* 2020 Sep 10:1-9. doi: 10.1080/13813455.2020.1808997. Online ahead of print. PMID: 32907408

□ Time-Dependent Changes in the Serum Levels of Neurobiochemical Factors After Acute Methadone Overdose in Adolescent Male Rat.

Ahmad-Molaei L, Pourhamzeh M, Ahadi R, Khodaghohi F, Hassanian-Moghaddam H, Haghparast A. *Cell Mol Neurobiol.* 2020 Jul 25. doi: 10.1007/s10571-020-00931-1. Online ahead of print. PMID: 32712727

□ The role of sleep disturbances in depressive-like behavior with emphasis on  $\alpha$ -ketoglutarate dehydrogenase activity in rats.

Kordestani-Moghadam P, Nasehi M, Vaseghi S, Khodaghohi F, Zarrindast MR. *Physiol Behav.* 2020 Oct 1;224:113023. doi: 10.1016/j.physbeh.2020.113023. Epub 2020 Jun 20. PMID: 32574661

□ Early postnatal stress impairs insulin secretion in response to psychological stress in adult rats. Zardooz H, Sadeghimahalli F, Khodaghohi F. *J Endocrinol Invest.* 2021 Feb;44(2):277-286.

doi: 10.1007/s40618-020-01291-9. Epub 2020 May 26. PMID: 32458408

❑ 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.

Fatahi Z, Zeinaddini-Meymand A, Karimi S, Khodagholi F, Haghparast A. *Pharmacol Biochem Behav.* 2020 Jul;194:172952. doi: 10.1016/j.pbb.2020.172952. Epub 2020 May 16. PMID: 32428531

❑ Altered D2 receptor and transcription factor EB expression in offspring of aggressive male rats, along with having depressive and anxiety-like behaviors.

Khalifeh S, Khodagholi F, Zarrindast MR, Alizadeh R, Asadi S, Mohammadi Kamsorkh H, Nasehi M, Ghadami A, Sadat-Shirazi MS. *Int J Neurosci.* 2020 Apr 28:1-11. doi: 10.1080/00207454.2020.1758086. Online ahead of print. PMID: 32306793

❑ Changes in mitochondrial function in patients with neuromyelitis optica; correlations with motor and cognitive disabilities.

Foolad F, Khodagholi F, Nabavi SM, Javan M. *PLoS One.* 2020 Mar 26;15(3):e0230691. doi: 10.1371/journal.pone.0230691. eCollection 2020. PMID: 32214385 [Free PMC article.](#)

❑ 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.

Kordestani-Moghadam P, Nasehi M, Khodagholi F, Vaseghi S, Zarrindast MR, Khani M. *Brain Res.* 2020 May 1;1734:146739. doi: 10.1016/j.brainres.2020.146739. Epub 2020 Feb 19. PMID: 32087111

❑ Grafted human chorionic stem cells restore motor function and preclude cerebellar neurodegeneration in rat model of cerebellar ataxia.

Akhlaghpasand M, Tizro M, Raoofi A, Meymand AZ, Farhadieh M, Khodagholi F, Khatmi A, Soltani R, Hoseini Y, Jahanian A, Boroujeni ME, Aliaghaei A. *Metab Brain Dis.* 2020 Apr;35(4):615-625. doi: 10.1007/s11011-020-00543-0. Epub 2020 Feb 15. PMID: 32062747

❑ Additive toxicity of Co-exposure to pristine multi-walled carbon nanotubes and benzo  $\alpha$  pyrene in lung cells.

Azari MR, Mohammadian Y, Pourahmad J, Khodagholi F, Mehrabi Y. *Environ Res.* 2020 Apr;183:109219. doi: 10.1016/j.envres.2020.109219. Epub 2020 Feb 11. PMID: 32085994

❑ Effects of PM<sub>2.5</sub> and gases exposure during prenatal and early-life on autism-like phenotypes in male rat offspring.

Emam B, Shahsavani A, Khodagholi F, Zarandi SM, Hopke PK, Hadei M, Behbahani H, Yarahmadi M. *Part Fibre Toxicol.* 2020 Jan 29;17(1):8. doi: 10.1186/s12989-020-0336-y. PMID: 31996222 [Free PMC article.](#)

❑ Neuronal injury and death following focal mild brain injury: The role of network excitability and seizure.

Ghadiri T, Gorji A, Vakilzadeh G, Hajali V, Khodaghohi F, Sharifzadeh M. Iran J Basic Med Sci. 2020 Jan;23(1):63-70. doi: 10.22038/IJBMS.2019.37558.8932.PMID: 32405349 [Free PMC article](#).

Naloxone-precipitated withdrawal ameliorates impairment of cost-benefit decision making in morphine-treated rats: Involvement of BDNF, p-GSK3- $\beta$ , and p-CREB in the amygdala.

Fatahi Z, Zeinaddini-Meymand A, Karimi-Haghighi S, Moradi M, Khodaghohi F, Haghparast A. Neurobiol Learn Mem. 2020 Jan;167:107138. doi: 10.1016/j.nlm.2019.107138. Epub 2019 Dec 13. PMID: 31838222

Intra-accumbal dopaminergic system modulates the restraint stress-induced antinociceptive behaviours in persistent inflammatory pain.

Faramarzi G, Charmchi E, Salehi S, Zendehelel M, Haghparast A. Eur J Pain. 2020 Dec 20. doi: 10.1002/ejp.1716. Online ahead of print. PMID: 33342008

The orexin receptors in the ventral tegmental area are involved in the development of sensitization to expression of morphine-induced preference in rats.

Mahmoudi D, Assar N, Mousavi Z, Katebi SN, Azizi P, Haghparast A. Behav Pharmacol. 2020 Dec;31(8):759-767. doi: 10.1097/FBP.0000000000000587. PMID: 32925229

Neural synchronization between the anterior cingulate and orbitofrontal cortices during effort-based decision making.

Fatahi Z, Ghorbani A, Ismail Zibaii M, Haghparast A. Neurobiol Learn Mem. 2020 Nov;175:107320. doi: 10.1016/j.nlm.2020.107320. Epub 2020 Sep 30. PMID: 33010385

Role of orexin receptors within the dentate gyrus in antinociception induced by chemical stimulation of the lateral hypothalamus in an animal model of inflammatory pain.

Rasouli B, Rashvand M, Mousavi Z, Haghparast A. Peptides. 2020 Dec;134:170401. doi: 10.1016/j.peptides.2020.170401. Epub 2020 Sep 4. PMID: 32891686

Chemical stimulation of the lateral hypothalamus induced seeking behaviors in rats: Involvement of orexin receptors in the ventral tegmental area.

Mahmoudi M, Maleki-Roveshti M, Karimi-Haghighi S, Haghparast A. Eur J Pharmacol. 2020 Nov 5;886:173433. doi: 10.1016/j.ejphar.2020.173433. Epub 2020 Aug 4. PMID: 32763297

The contribution of orexin receptors within the ventral tegmental area to modulation of antinociception induced by chemical stimulation of the lateral hypothalamus in the animal model of orofacial pain in the rats.

Safari-Sandiani E, Rahimitabar N, Rezaee L, Behnaz M, Haghparast A. Behav Pharmacol. 2020 Aug;31(5):500-509. doi: 10.1097/FBP.0000000000000531. PMID: 31895063

Corticosterone impairs contextual fear recall after reactivation in the ovariectomized rat model of menopause.

Kashefi A, Rashidy-Pour A, Vafaei AA, Haghparast A, Tomaz C, Ahmadalipour A. *Behav Brain Res.* 2020 Sep 15;394:112817. doi: 10.1016/j.bbr.2020.112817. Epub 2020 Jul 25. PMID: 32717376

Differential Roles of Intra-accumbal Orexin Receptors in Acquisition and Expression of Methamphetamine-Induced Conditioned Place Preference in the Rats.

Khosrowabadi E, Karimi-Haghighi S, Jamali S, Haghparast A. *Neurochem Res.* 2020 Sep;45(9):2230-2241. doi: 10.1007/s11064-020-03084-1. Epub 2020 Jul 8. PMID: 32643036

The Effect of Zinc and Vitamin D Nutrition on Reducing Morphine Side Effects and Development of Dental Anomalies in Rats Newborns.

Shafiei I, Ajdary M, Haghparast A, Mashhadiabbas F, Haghparast A. *Basic Clin Neurosci.* 2020 Jul-Aug;11(4):403-412. doi: 10.32598/bcn.11.4.38.6. Epub 2020 Jul 1. PMID: 33613878 [Free PMC article.](#)

Modulatory role of hippocampal dopamine receptors in antinociceptive responses induced by chemical stimulation of the lateral hypothalamus in an animal model of persistent inflammatory pain.

Zakeri M, Soltanizadeh S, Karimi-Haghighi S, Haghparast A. *Brain Res Bull.* 2020 Sep;162:253-260. doi: 10.1016/j.brainresbull.2020.06.017. Epub 2020 Jun 30. PMID: 32615158

Changes in c-fos and p-CREB signaling following exposure to forced swim stress or exogenous corticosterone during morphine-induced place preference are dependent on glucocorticoid receptor in the basolateral amygdala.

Razavi Y, Karimi S, Karimi-Haghighi S, Hesam S, Haghparast A. *Can J Physiol Pharmacol.* 2020 Nov;98(11):741-752. doi: 10.1139/cjpp-2019-0712. Epub 2020 Jun 23. PMID: 32574519

Role of Dopaminergic Receptors Within the Ventral Tegmental Area in Antinociception Induced by Chemical Stimulation of the Lateral Hypothalamus in an Animal Model of Orofacial Pain. Matini T, Haghparast A, Rezaee L, Salehi S, Tehranchi A, Haghparast A. *J Pain Res.* 2020 Jun 15;13:1449-1460. doi: 10.2147/JPR.S255250. eCollection 2020. PMID: 32606911 [Free PMC article.](#)

The blockade of D1- and D2-like dopamine receptors within the dentate gyrus attenuates food deprivation stress-induced reinstatement of morphine-extinguished conditioned place preference in rats.

Mozafari R, Jamali S, Pourhamzeh M, Koruji M, Ahadi R, Haghparast A. *Pharmacol Biochem Behav.* 2020 Sep;196:172967. doi: 10.1016/j.pbb.2020.172967. Epub 2020 Jun 15. PMID: 32553787

Neuroprotective effect of chronic administration of cannabidiol during the abstinence period on methamphetamine-induced impairment of recognition memory in the rats.

Razavi Y, Shabani R, Mehdizadeh M, Haghparast A. *Behav Pharmacol.* 2020 Jun;31(4):385-396. doi: 10.1097/FBP.0000000000000544. PMID: 32032100

□ D1- but not D2-like dopamine receptor antagonist in the CA1 region of the hippocampus reduced stress-induced reinstatement in extinguished morphine-conditioning place preference in the food-deprived rats.

Nazari-Serenjeh F, Jamali S, Rezaee L, Zarrabian S, Haghparast A. *Behav Pharmacol.* 2020 Apr;31(2&3):196-206. doi: 10.1097/FBP.0000000000000546.PMID: 32040018

□ Paraventricular nucleus-microinjected glucose increases food intake in 18 h food-deprived rats: A central regulatory mechanism on serum ghrelin and leptin levels.

Brojeni MS, Nasser F, Haghparast A, Eliassi A. *Eur J Pharmacol.* 2020 Jun 5;876:173073. doi: 10.1016/j.ejphar.2020.173073. Epub 2020 Mar 15.PMID: 32188577

□ Role of hippocampal dopamine receptors in the antinociceptive responses induced by chemical stimulation of the lateral hypothalamus in animal model of acute pain.

Rezaee L, Alizadeh AM, Haghparast A. *Brain Res.* 2020 May 1;1734:146759. doi: 10.1016/j.brainres.2020.146759. Epub 2020 Mar 2.PMID: 32135149

□ Chemical stimulation of the lateral hypothalamus induces antiallodynic and anti-thermal hyperalgesic effects in animal model of neuropathic pain: Involvement of orexin receptors in the spinal cord.

Salehi S, Kashfi K, Manaheji H, Haghparast A. *Brain Res.* 2020 Apr 1;1732:146674. doi: 10.1016/j.brainres.2020.146674. Epub 2020 Jan 22.PMID: 31981680

□ Involvement of Orexinergic System Within the Nucleus Accumbens in Pain Modulatory Role of the Lateral Hypothalamus in Orofacial Pain Model.

Haghparast A, Matini T, Rezaee L, Rahban M, Tehranchi A, Haghparast A. *Neurochem Res.* 2020 Apr;45(4):851-859. doi: 10.1007/s11064-020-02957-9. Epub 2020 Jan 21.PMID: 31965554

□ Improving the Izhikevich Model Based on Rat Basolateral Amygdala and Hippocampus Neurons, and Recognizing Their Possible Firing Patterns.

Hojjatnia S, Aliyari Shoorehdeli M, Fatahi Z, Hojjatnia Z, Haghparast A. *Basic Clin Neurosci.* 2020 Jan-Feb;11(1):79-90. doi: 10.32598/bcn.9.10.435. Epub 2020 Jan 1.PMID: 32483478 [Free PMC article.](#)

□ Role of orexinergic receptors in the dentate gyrus of the hippocampus in the acquisition and expression of morphine-induced conditioned place preference in rats.

Shirazy M, RayatSanati K, Jamali S, Motamedi F, Haghparast A. *Behav Brain Res.* 2020 Feb 3;379:112349. doi: 10.1016/j.bbr.2019.112349. Epub 2019 Nov 9.PMID: 31711894

□ Tissue Plasminogen Activator Promotes TXNIP-NLRP3 Inflammasome Activation after Hyperglycemic Stroke in Mice.

Ismael S, Nasoohi S, Yoo A, Ahmed HA, Ishrat T. *Mol Neurobiol.* 2020 Jun;57(6):2495-2508. doi: 10.1007/s12035-020-01893-7. Epub 2020 Mar 14.PMID: 32172516

- Efficient refolding of recombinant reticulon expressed in Escherichia coli strains using response surface methodology.  
Fathi-Roudsari M, Maghsoudi A, Maghsoudi N, Niazi S, Soleiman M. *Int J Biol Macromol.* 2020 Dec 1;164:1321-1327. doi: 10.1016/j.ijbiomac.2020.07.183. Epub 2020 Jul 19. PMID: 32698065
- Microglia dependent BDNF and proBDNF can impair spatial memory performance during persistent inflammatory pain.  
Mohammadi M, Manaheji H, Maghsoudi N, Danyali S, Baniasadi M, Zaringhalam J. *Behav Brain Res.* 2020 Jul 15;390:112683. doi: 10.1016/j.bbr.2020.112683. Epub 2020 May 19. PMID: 32442548
- CEPO (carbamyated erythropoietin)-Fc protects hippocampal cells in culture against beta amyloid-induced apoptosis: considering Akt/GSK-3 $\beta$  and ERK signaling pathways.  
Hooshmandi E, Moosavi M, Katinger H, Sardab S, Ghasemi R, Maghsoudi N. *Mol Biol Rep.* 2020 Mar;47(3):2097-2108. doi: 10.1007/s11033-020-05309-6. Epub 2020 Feb 17. PMID: 32067159
- Effect of carbamyated erythropoietin Fc fusion protein (CEPO-Fc) on learning and memory impairment and hippocampal apoptosis induced by intracerebroventricular administration of streptozotocin in rats.  
Moosavi M, Hooshmandi E, Javadpour P, Maghsoudi N, Katinger H, Ghasemi R. *Behav Brain Res.* 2020 Apr 20;384:112554. doi: 10.1016/j.bbr.2020.112554. Epub 2020 Feb 11. PMID: 32057828
- Neuroprotective Effect of New Nanochelating-Based Nano Complex, ALZc3, Against A $\beta$ <sub>(1-42)</sub>-Induced Toxicity in Rat: a Comparison with Memantine.  
Karimi-Sales R, Ashiri M, Hafizi M, Kalanaky S, Maghsoudi AH, Fakharzadeh S, Maghsoudi N, Nazaran MH. *Pharm Res.* 2020 Feb 4;37(3):48. doi: 10.1007/s11095-020-2773-6. PMID: 32020309
- Microglial-induced apoptosis is potentially responsible for hyperalgesia variations during CFA-induced inflammation.  
Baniasadi M, Manaheji H, Maghsoudi N, Danyali S, Zakeri Z, Maghsoudi A, Zaringhalam J. *Inflammopharmacology.* 2020 Apr;28(2):475-485. doi: 10.1007/s10787-019-00623-3. Epub 2019 Aug 6. PMID: 31388881
- Complementation of dopaminergic signaling by Pitx3-GDNF synergy induces dopamine secretion by multipotent Ntera2 cells.  
Eskandarian Boroujeni M, Aliaghaei A, Maghsoudi N, Gardaneh M. *J Cell Biochem.* 2020 Jan;121(1):200-212. doi: 10.1002/jcb.29109. Epub 2019 Jul 16. PMID: 31310388
- 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.



Moslemi M, Khodagholi F, Asadi S, Rafiei S, Motamedi F. Behav Brain Res. 2020 Feb 3;379:112354. doi: 10.1016/j.bbr.2019.112354. Epub 2019 Nov 14. PMID: 31733312

Measuring the Frequency-Specific Functional Connectivity Using Wavelet Coherence Analysis in Stroke Rats Based on Intrinsic Signals.

Mohammadzadeh L, Latifi H, Khaksar S, Feiz MS, Motamedi F, Asadollahi A, Ezzatpour M. Sci Rep. 2020 Jun 10;10(1):9429. doi: 10.1038/s41598-020-66246-9.

Temporary inactivation of interpeduncular nucleus impairs long but not short term plasticity in the perforant-path dentate gyrus synapses in rats.

Khatami L, Safari V, Motamedi F. Behav Brain Res. 2020 Jan 13;377:112212. doi: 10.1016/j.bbr.2019.112212. Epub 2019 Sep 7.