

## 2020 PubMed Articles

- Ebrahimikhonacha S, Motamedi F, Janahmadi M.

P. 643 Kisspeptin receptor activation dampens CA1 pyramidal neuronal hyperexcitability in a rat model of Amyloid beta-induced Alzheimer's like diseases. *Eur Neuropsychopharmacol.* 2020;40:S362--S363.

- Khataei T, Harding AMS, Janahmadi M, El-Geneidy M, Agha-Alinejad H, Rajabi H, Snyder PM, Sluka KA, Benson CJ.

ASICs are required for immediate exercise-induced muscle pain and are downregulated in sensory neurons by exercise training. *J Appl Physiol.* 2020;129(1):17–26. <https://doi.org/10.1152/japplphysiol.00033.2020>

- Salehi N, Akbari M, Pourbakht A, Haghani H, Janahmadi M.

A Dose-Effect Study of Cisplatin Ototoxicity in Albino Guinea Pigs. *Iran J Otorhinolaryngol.* 2020 May;32(110):155-161. doi: 10.22038/ijorl.2019.41914.2368. PMID: 32596174; PMCID: PMC7302528.

- Ahmadirad N, Zare M, Janahmadi M, Fathollahi Y, Shojaei A, Mirnajafi-Zadeh S J.

The Role of Adrenergic Receptors on Neural Excitability and Synaptic Plasticity: A Narrative Review. *JRUMS* 2020; 18 (10) :1049-1064  
URL: <http://journal.rums.ac.ir/article-1-4756-en.html>

- Khataei T, Harding AS, Janahmadi M, El-Geneidy M, Rajabi H, Snyder PM, Sluka KA, Benson C.

A Novel Role Of ASICs In Immediate Exercise-Induced Pain And Exercise Performance: 1847 Board# 2 May 28 1: 30 PM-3: 30 PM. *Med Sci Sports Exerc.* 2020;52(7S):498. DOI: 10.1249/01.mss.0000679544.66012.e5

- Saeedi N, Darvishmolla M, Tavassoli Z, Davoudi S, Heysieattalab S, HosseiniMardi N, Janahmadi M, Behzadi G.

The role of hippocampal glial glutamate transporter (GLT-1) in morphine-induced behavioral responses. *Brain Behav.* 2021;11(9):e2323. <https://doi.org/10.1002/brb3.2323>

- Khodaverdi M, Rahdar M, Davoudi S, Hajisoltani R, Tavassoli Z, Ghasemi Z, Amini AE, HosseiniMardi N, Behzadi G, Janahmadi M.

5-HT7 receptor activation rescues impaired synaptic plasticity in an autistic-like rat model induced by prenatal VPA exposure. *Neurobiol Learn Mem.* 2021;183:107462. <https://doi.org/10.1016/j.nlm.2021.107462>

- Heysieattalab, S., Doostmohammadi, J., Darvishmolla, M., Saeedi, N., HosseiniMardi, N., Gholami, M., Janahmadi, M., Choopani, S.

Non-selective COX inhibitors impair memory formation and short-term but not long-term synaptic plasticity. *Naunyn-Schmiedeberg's Arch Pharmacol* 394, 1879–1891 (2021). <https://doi.org/10.1007/s00210-021-02092-4>

- Karimi SA, HosseiniMardi N, Sayyah M, Hajisoltani R, Janahmadi M.

Enhancement of intrinsic neuronal excitability-mediated by a reduction in hyperpolarization-activated cation current ( $I_h$ ) in hippocampal CA1 neurons in a rat model of traumatic brain injury. *Hippocampus.* 2021;31(2):156–69.

- Abizadeh M, Heysieattalab S, Saeedi N, HosseiniMardi N, Janahmadi M, Salari F, Golpayegani SM, Shojaei A.

Ameliorating Effects of Dorema ammoniacum on PTZ-Induced Seizures and Epileptiform Brain Activity in Rats. *Planta Med.* 2020;86(18):1353–62. DOI: 10.1055/a-1229-4436

- Goudarzi A, HosseiniMardi N, Salami S, Mehdikhani F, Derakhshan S, Aminishakib P.

Starvation promotes histone lysine butyrylation in the liver of male but not female mice. *Gene.* 2020;745:144647. <https://doi.org/10.1016/j.gene.2020.144647>

- Gholami M, HosseiniMardi N, Mirnajafi-Zadeh J, Javan M, Semnanian S, Naghdi N, Fathollahi Y.

Long-term potentiation enhancing effect of epileptic insult in the CA1 area is dependent on prior-application of primed-burst stimulation. *Exp Brain Res* 238, 897–903 (2020). <https://doi.org/10.1007/s00221-020-05766-2>

- Salehi S, A. Dehaqani MR, Noudoost B, Esteky H.

Distinct mechanisms of face representation by enhancive and suppressive neurons of the inferior temporal cortex. *J Neurophysiol.* 2020;124(4):1216–28.

<https://doi.org/10.1152/jn.00203.2020>

- Mohammadi M, Manaheji H, Maghsoudi N, Danyali S, Baniasadi M, Zaringhalam J. Microglia dependent BDNF and proBDNF can impair spatial memory performance during persistent inflammatory pain. *Behav Brain Res.* 2020;390:112683.  
<https://doi.org/10.1016/j.bbr.2020.112683>.

- Salehi S, Kashfi K, Manaheji H, Haghparast A.

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. *Brain Res.* 2020;1732:146674. <https://doi.org/10.1016/j.brainres.2020.146674>

- Baniasadi M, Manaheji H, Maghsoudi N, Danyali S, Zakeri Z, Maghsoudi A, Zaringhalam J.

Microglial-induced apoptosis is potentially responsible for hyperalgesia variations during CFA-induced inflammation. *Inflammopharmacol* 28, 475–485 (2020).

<https://doi.org/10.1007/s10787-019-00623-3>

- Hakimiha N, Dehghan MM, Manaheji H, Zaringhalam J, Farzad-Mohajeri S, Fekrazad R, Moslemi N.

Recovery of inferior alveolar nerve by photobiomodulation therapy using two laser wavelengths: A behavioral and immunological study in rat. *J Photochem Photobiol B Biol.* 2020;204:111785. <https://doi.org/10.1016/j.jphotobiol.2020.111785>

- Baratzadeh, M., Danialy, S., Zaringhalam, H., Manaheji H,

Investigating the effect of Ultra-low dose naloxone on spinal BDNF and KCC2 cotransporter in morphine tolerant and hyperalgesia rats, 17 February 2020, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.2.23771/v1>].

- 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;42(1):19–27. <https://doi.org/10.1515/hmbci-2020-0063>

- Mirkheshti A, Shakeri A, Memary E, Baniasadi M, Zaringhalam J, Tajbakhsh A, Mirzaei M, Lak E.

Maternal sciatic nerve administered bupivacaine induces hippocampal cell apoptosis in offspring. *BMC Anesthesiol* 20, 228 (2020). <https://doi.org/10.1186/s12871-020-01143-2>

- Taghizadeh M, Maghsoudi N, Manaheji H, Akparov V, Baniasadi M, Danyali S, Mohammadi M, Ghasemi R, Zaringhalam J.

Nootropic dipeptide, Noopept can modulate hyperalgesia by effecting on spinal microglia dependent Brain Derived Neurotropic Factor (BDNF) and pro-BDNF expression and apoptosis during persistent inflammation, 17 January 2020, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.2.21124/v1>]

- Golabi S, Zaringhalam J, Manaheji H.

Synovial interleukin-6 affects apoptosis induction via nuclear factor kappa-B and fractalkine pathway during adjuvant arthritis. *Med J Islam Repub Iran.* 2020 Mar 25;34:25. doi: 10.34171/mjiri.34.25. PMID: 32551314; PMCID: PMC7293817.

- Rashvand M, Danyali S, Manaheji H.

The Potential Role of Glycogen Synthase Kinase-3 $\beta$  in Neuropathy-Induced Apoptosis in Spinal Cord. *Basic Clin Neurosci.* 2020 Jan-Feb;11(1):15-30. doi: 10.32598/bcn.11.1.1. Epub 2020 Jan 1. PMID: 32483472; PMCID: PMC7253818.

- Moosavi M, Hooshmandi E, Javadpour P, Maghsoudi N, Katinger H, Ghasemi R.

Effect of carbamylated erythropoietin Fc fusion protein (CEPO-Fc) on learning and memory impairment and hippocampal apoptosis induced by intracerebroventricular administration of streptozotocin in rats. *Behav Brain Res.* 2020;384:112554. <https://doi.org/10.1016/j.bbr.2020.112554>

- Hooshmandi, E, Moosavi M, Katinger H, Sardab S, Ghasemi R, Maghsoudi N. CEPO (carbamylated erythropoietin)-Fc protects hippocampal cells in culture against beta amyloid-induced apoptosis: considering Akt/GSK-3 $\beta$  and ERK signaling pathways. *Mol Biol Rep* 47, 2097–2108 (2020). <https://doi.org/10.1007/s11033-020-05309-6>
  
- Ghasemi R, Jamilpanah L, Shafei M, Khademi I, Mohseni SM, Tehranchi MM. Metal/metal-oxide thin layer heterostructure by laser treatment for memristor application. *Mater Lett.* 2020;261:127094. <https://doi.org/10.1016/j.matlet.2019.127094>
  
- Ghasemi R, Jamilpanah L, Faridi E, Hajiali MR, Shafei M, Mohseni SM, Tehranchi MM. Electrical and magneto-optical characterization of Py/MoS<sub>2</sub> bilayer: A facile growth of magnetic-metal/semiconductor heterostructure. *Mater Lett.* 2020;265:127454. <https://doi.org/10.1016/j.matlet.2020.127454>
  
- Jahanmahin A, Abbasnejad Z, Haghparast A, Ahmadiani A, Ghasemi R. The Effect of Intrahippocampal Insulin Injection on Scopolamine-induced Spatial Memory Impairment and Extracellular Signal-regulated Kinases Alteration. *Basic Clin Neurosci.* 2019 Jan-Feb;10(1):23-36. doi: 10.32598/bcn.9.10.165. Epub 2019 Jan 1. PMID: 31031891; PMCID: PMC6484185.
  
- Azizi F, Askari S, Javadpour P, Hadjighassem M, Ghasemi R. Potential role of exosome in post-stroke reorganization and/or neurodegeneration. *EXCLI J.* 2020 Dec 11;19:1590-1606. doi: 10.17179/excli2020-3025. PMID: 33408596; PMCID: PMC7783471.
  
- Azizi F, Ghasemi R, Hadjighassem M. Primary spinal cord neurons better attach to non-coated surfaces than to poly (D-lysine)-coated surfaces. *Arch Neurosci.* 2020;7(2). <https://doi.org/10.5812/ans.99771>.

- Torabi N, Nazari M, Fahanik-Babaei J, Eliassi A.  
Long-term administration of intranasal insulin improves peripheral glucose concentration in diabetic male rats. *Physiol Pharmacol*. 2020;24(4):268–75.  
<http://dx.doi.org/10.32598/ppj.24.4.70>
  
- Saebi Rad F, Haghparast A, Eliassi A.  
Ventral Tegmental Area Microinjected-SKF38393 Increases Regular Chow Intake in 18 Hours Food-Deprived Rats. *Basic Clin Neurosci*. 2020 Nov-Dec;11(6):773-780. doi: 10.32598/bcn.11.6.2226.1. Epub 2020 Nov 1. PMID: 33850614; PMCID: PMC8019846.
  
- Brojeni MS, Nasseri F, Haghparast A, Eliassi A.  
Paraventricular nucleus-microinjected glucose increases food intake in 18 h food-deprived rats: a central regulatory mechanism on serum ghrelin and leptin levels. *Eur J Pharmacol*. 2020;876:173073. <https://doi.org/10.1016/j.ejphar.2020.173073>
  
- Fahanik-Babaei J, Rezaee B, Nazari M, Torabi N, Saghiri R, Sauve R, Eliassi A.  
A new brain mitochondrial sodium-sensitive potassium channel: Effect of sodium ions on respiratory chain activity. *J Cell Sci*. 2020;133(10):jcs242446. 10.1242/jcs.242446