

2021 PubMed Articles

- Tabatabae S, Bahrami F, Janahmadi M.

The critical modulatory role of spiny stellate cells in seizure onset based on dynamic analysis of a neural mass model. *Front Neurosci.* 2021;15:743720. <https://doi.org/10.3389/fnins.2021.743720>

- Ahmadirad N, Fathollahi Y, Janahmadi M, Ghasemi Z, Shojaei A, Rezaei M, Barkley V, Mirnajafi-Zadeh J.

The role of α adrenergic receptors in mediating the inhibitory effect of electrical brain stimulation on epileptiform activity in rat hippocampal slices. *Brain Res.* 2021;1765:147492. <https://doi.org/10.1016/j.brainres.2021.147492>

- Farahani F, Azizi H, Janahmadi M, Seutin V, Semnanian S.

Formalin-induced inflammatory pain increases excitability in locus coeruleus neurons. *Brain Res Bull.* 2021;172:52–60. <https://doi.org/10.1016/j.brainresbull.2021.04.002>

- Haddad M, Khazali H, Janahmadi M.

The potential impact of the orexinergic system on the symptoms of coronavirus-infected patients. *Nov Biomed.* 2021;9:194–203.

- Akbari E, HosseiniMardi N, Rouhi Ardestiri M.

Paired-pulse Inhibition and Disinhibition of the Dentate Gyrus Following Orexin Receptors Inactivation in the Basolateral Amygdala. *Basic Clin Neurosci.* 2021 Nov-Dec;12(6):827-836. doi: 10.32598/bcn.12.6.1460.1. Epub 2021 Nov 1. PMID: 35693145; PMCID: PMC9168815.

- 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.

- Zhang J, Zhu X, Wang S, Ma Z, Esteky H, Tian Y, Desimone R, Zhou H.

Visual attention in the fovea and the periphery during visual search. *bioRxiv.* 2021;2011–21. <https://doi.org/10.1101/2021.11.22.469359>

- Sadeghi M, Manaheji H, Zaringhalam J, Haghparast A, Nazemi S, Bahari Z, Noorbakhsh SM.

Evaluation of the GABAA Receptor Expression and the Effects of Muscimol on the Activity of Wide Dynamic Range Neurons Following Chronic Constriction Injury of Sciatic Nerve in Rats. *Basic Clin Neurosci.* 2021 Sep-Oct;12(5):651-666. doi: 10.32598/bcn.2021.1726.1. Epub 2021 Sep 1. PMID: 35173919; PMCID: PMC8818116.

- Mirzaei, V., Eidi, A., Manaheji, H., Zaringhalam J.

β -Hydroxybutyrate Attenuates Clinical Symptoms and Pain Behaviors in MOG-Induced Encephalomyelitis. *Neurochem J.* 15, 181–186 (2021). <https://doi.org/10.1134/S1819712421020100>.

□ Binayi F, Zardooz H, Ghasemi R, Hedayati M, Askari S, Pouriran R, Sahraei M.

The chemical chaperon 4-phenyl butyric acid restored high-fat diet-induced hippocampal insulin content and insulin receptor level reduction along with spatial learning and memory deficits in male rats. *Physiol & Behav*. 2021;231:113312. <https://doi.org/10.1016/j.physbeh.2021.113312>

□ Eskandari F, Salimi M, Khodagholi F, Hedayati M, Zardooz H.

Investigation of the effects of maternal separation on the pancreatic oxidative and inflammatory damages along with metabolic impairment in response to chronic social defeat stress in young adult male rats. 2021;1:3. Available from: <https://doi.org/10.1007/s40200-021-00902-3>

□ 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*. 2021;127(5):406–13. <https://doi.org/10.1080/13813455.2019.1645699>.

□ Askari K, Oryan S, Eidi A, Zaringhalam J, Haghparast A.

Modulatory role of the orexin system in stress-induced analgesia: Involvement of the ventral tegmental area. *Eur J Pain*. 2021;25(10):2266–77. <https://doi.org/10.1002/ejp.1840>.

□ Iloun P, Hooshmandi E, Gheibi S, Kashfi K, Ghasemi R, Ahmadiani A.

Roles and Interaction of the MAPK Signaling Cascade in A β 25–35-Induced Neurotoxicity Using an Isolated Primary Hippocampal Cell Culture System. *Cell Mol Neurobiol*. 2021;41:1497–507. (<https://doi.org/10.1007/s10571-020-00912-4>)

□ Javadpour P, Askari S, Rashidi FS, Dargahi L, Ahmadiani A, Ghasemi R.

Imipramine alleviates memory impairment and hippocampal apoptosis in STZ-induced sporadic Alzheimer's rat model: possible contribution of MAPKs and insulin signaling. *Behav Brain Res*. 2021;408:113260. <https://doi.org/10.1016/j.bbr.2021.113260>

- Mozafari R, Karimi-Haghghi S, Hooshmandi E, Ghasemi R, Koruji M, Ahadi R, Haghparast A.

Hippocampal D1—but not D2—like dopamine receptors modulate the phosphorylation of ERK in food deprivation-induced reinstatement of morphine in extinguished rats. *Neuroreport*. 2021;32(4):332–8. DOI: [10.1097/WNR.0000000000001597](https://doi.org/10.1097/WNR.0000000000001597)

- Javadpour P, Askari S, Azizi F, Ghasemi R.

Time course study of ERK1/2 activity and cell viability in lipopolysaccharide challenged PC12 cells. *Physiol Pharmacol*. 2021;25(1):76–82. <http://dx.doi.org/10.32598/ppj.25.1.50>

- Torabi N, Noursadeghi E, Shayanfar F, Nazari M, Fahanik-babaei J, Saghiri R, Khodagholi F, Eliassi F.

Intranasal insulin improves the structure–function of the brain mitochondrial ATP–sensitive Ca^{2+} activated potassium channel and respiratory chain activities under diabetic conditions. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, Volume 1867, Issue 4, 2021, 166075, ISSN 0925-4439,