

## 2022 PubMed Articles

- Ranjbar H, Soti M, A. Kohlmeier K, Janahmadi M, Sheibani V, Shabani M.

Pharmacologic antagonism of CB1 receptors improves electrophysiological alterations in the 3-AP model of cerebellar ataxia, 09 September 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-2019148/v1>]

- Ranjbar H, Soti M, Janahmadi M, A. Kohlmeier K, Sheibani V, Ahmadi-Zeidabadi M, Shabani M.

Modulation of the CB1 cannabinoid receptor has potential therapeutic utility in the 3-acetylpyridine cerebellar ataxia rat model. *Exp Brain Res* 240, 2339–2348 (2022). <https://doi.org/10.1007/s00221-022-06415-6>

- Khonacha SE, Mirbehbahani SH, Rahdar M, Davoudi S, Borjkhani M, Khodaghali F, Motamedi F, Janahmadi M.

Kisspeptin-13 prevented the electrophysiological alterations induced by amyloid-beta pathology in rat: Possible involvement of stromal interaction molecules and pCREB. *Brain Res Bull.* 2022;184:13–23. <https://doi.org/10.1016/j.brainresbull.2022.03.003>

- Saeedi N, Heysieattalab S, Janahmadi M, Hosseinmardi N.

The role of glial glutamate transporter in the baseline synaptic response and short-term synaptic plasticity of CA1 area of the hippocampus in male Wistar rat. *Med J Tabriz Univ Med Sci.* 2022;44(5):380–9. <https://doi.org/10.34172/mj.2022.%20044>

- Khani F, Pourmotabbed A, Hosseinmardi N, Nedaei SE, Fathollahi Y, Azizi H.

Development of anxiety-like behaviors during adolescence: Persistent effects of adolescent morphine exposure in male rats. *Dev Psychobiol.* 2022;64(7):e22315. <https://doi.org/10.1002/dev.22315>

- Tavassoli Z, Giahi M, Janahmadi M, Hosseinmardi N.

Glial cells inhibition affects the incidence of metaplasticity in the hippocampus of Pentylentetrazole-induced kindled rats. *Epilepsy \& Behav.* 2022;135:108907. <https://doi.org/10.1016/j.yebeh.2022.108907>

- Rahdar M, Hajisoltani R, Davoudi S, Karimi SA, Borjkhani M, Khatibi VA, Hosseinmardi N, Behzadi G, Janahmadi M.

Alterations in the intrinsic discharge activity of CA1 pyramidal neurons associated with possible changes in the NADPH diaphorase activity in a rat model of autism induced by prenatal exposure to valproic acid. *Brain Res.* 2022;1792:148013. <https://doi.org/10.1016/j.brainres.2022.148013>

- Nasudi G, Salmani ME, Hosseinmardi N, Moradpour F, Lashkarbolouki T, Goudarzi I.

Hippocampal orexin-1 and endocannabinoid-1 receptors underlie the kainate-induced occlusion in theta-burst long-term potentiation. *Neuropeptides.* 2022;95:102263. <https://doi.org/10.1016/j.npep.2022.102263>

- Khani F, Pourmotabbed A, Hosseinmardi N, Nedaei SE, Fathollahi Y, Azizi H.

Impairment of spatial memory and dorsal hippocampal synaptic plasticity in adulthood due to adolescent morphine exposure. *Prog Neuro-Psychopharmacology Biol Psychiatry.* 2022;116:110532.

- Darvishmolla M, Heysieattalab S, Saeedi N, Hosseinmardi N, Janahmadi M.

Involvement of hippocampal astrocytic connexin-43 in morphine dependence. *Physiol \& Behav.* 2022;247:113710. <https://doi.org/10.1016/j.physbeh.2022.113710>

- Rezagholizadeh A, Karimi SA, Hosseinmardi N, Janahmadi M, Sayyah M.

The effects of glial cells inhibition on spatial reference, reversal and working memory deficits in a rat model of traumatic brain injury (TBI). *Int J Neurosci.* 2022;132(3):226–36. <https://doi.org/10.1080/00207454.2020.1807544>

□ Jafaari Suha A, Hosseinmardi N, Janahmadi.

Spatial working memory is disparately interrelated with social status through different developmental stages in rats. *Behav Brain Res.* 2022;416:113547. <https://doi.org/10.1016/j.bbr.2021.113547>

□ Dehaqani MR.A, Emadi N, Vahabie AH, Zandvakili A, Esteky H.

Neural signature of the perceptual decision in the neural population responses of the inferior temporal cortex. *Sci Rep* 12, 8628 (2022). <https://doi.org/10.1038/s41598-022-12236-y>

□ Mirzaei V, Eidi A, Manaheji H, Oryan S, Zaringhalam J.

$\beta$ -Hydroxybutyrate Diminishes the Apoptotic Cell Death and Demyelination via Altering Bax, Caspase-3, and Bcl2 Levels in the Spinal Cord of Mice with MOG-Induced Encephalomyelitis. *Neurochem. J.* 16, 322–333 (2022). <https://doi.org/10.1134/S1819712422030072>

□ Rahban M, Danyali S, Zaringhalam J, Manaheji H.

Pharmacological blockade of neurokinin1 receptor restricts morphine-induced tolerance and hyperalgesia in the rat. *Scandinavian Journal of Pain*, vol. 22, no. 1, 2022, pp. 193-203. <https://doi.org/10.1515/sjpain-2021-0052>

□ Izadi MS, Eskandari F, Binayi F, Salimi M, Rashidi FS, Hedayati M, Dargahi L, Ghanbarian H, Zardoos H.

Oxidative and endoplasmic reticulum stress develop adverse metabolic effects due to the high-fat high-fructose diet consumption from birth to young adulthood. *Life Sci.* 2022;309:120924. <https://doi.org/10.1016/j.lfs.2022.120924>

□ Salimi M, Eskandari F, Khodagholi F, Abdollahifar M-A, Hedayati M, Zardoos H, Keyhanmanesh R.

Correction: Perinatal stress exposure induced oxidative stress, metabolism disorder, and reduced GLUT-2 in adult offspring of rats. *Hormones (Athens).* 2022;21(4):751–7. <https://doi.org/10.1007/s42000-022-00383-w>

- Eskandari F, Salimi M, Hedayati M, Zardoos H.

Maternal separation induced resilience to depression and spatial memory deficit despite intensifying hippocampal inflammatory responses to chronic social defeat stress in young adult male rats. *Behav Brain Res* [Internet]. 2022;425(February):113810. <https://doi.org/10.1016/j.bbr.2022.113810>

- Salimi M, Eskandari F, Binayi F, Eliassi F, Ghanbarian H, Hedayati M, Fahanik-babaei J, Eftekhary M, Keyhanmanesh R, Zardoos H.

Maternal stress induced endoplasmic reticulum stress and impaired pancreatic islets' insulin secretion via glucocorticoid receptor upregulation in adult male rat offspring. *Sci Rep* 12, 12552 (2022). <https://doi.org/10.1038/s41598-022-16621-5>

- Maghsoudi A, Zaringhalam J, Moosavi M, Eidi A.

Intraperitoneal Carbamylated erythropoietin improves memory and hippocampal apoptosis in beta-amyloid rat model of Alzheimer's disease through stimulating autophagy and inhibiting necroptosis. *Physiol Pharmacol*. 2022;26(4):395–411. <http://dx.doi.org/10.52547/phypha.26.4.1>

- Maghsoudi A, Zaringhalam J, Moosavi M, Eidi A.

Carbamylated erythropoietin-Fc ameliorates A $\beta$ 25-35 induced neurotoxicity by modulating autophagy, apoptosis and necroptosis in Alzheimer's disease model rats. *Physiol Pharmacol*. 2022;26(3):272–87. <http://dx.doi.org/10.52547/phypha.26.3.3>

- Mohebichamkhorami F, Niknam Z, Khoramjouy M, Heidarli E, Ghasemi R, Hosseinzadeh S, Mohseni SS, Hajikarim-Hamedani A, Heidari A, Ghane Y, Mahmoudifard M, Zali H, Faizi M.

Brain Homogenate of a Rat Model of Alzheimer's Disease Modifies the Secretome of 3D Cultured Periodontal Ligament Stem Cells: A Potential Neuroregenerative Therapy. *Iran J Pharm Res*. 2022 Dec 12;21(1):e133668. doi: 10.5812/ijpr-133668. PMID: 36896321; PMCID: PMC9990517.

- Pourhadi, M., Zali, H., Ghasemi, R., Vafaei-Nezhad S.  
Promising Role of Oral Cavity Mesenchymal Stem Cell-Derived Extracellular Vesicles in Neurodegenerative Diseases. *Mol Neurobiol* 59, 6125–6140 (2022). <https://doi.org/10.1007/s12035-022-02951-y>
  
- Naseri, F., Sirati-Sabet, M., Sarlaki, F, Keimasi, M, Mokarram P, Siri, M, Ghasemi,R, Shamsavari, Z, Goshadrrou, F.  
The Effect of Ghrelin on Apoptosis, Necroptosis and Autophagy Programmed Cell Death Pathways in the Hippocampal Neurons of Amyloid- $\beta$  1–42-Induced Rat Model of Alzheimer’s Disease. *Int J Pept Res Ther* 28, 151 (2022). <https://doi.org/10.1007/s10989-022-10457-3>
  
- Azizi F, Ghasemi R, Ardalan M.  
Two Common Mistakes in Applying ANOVA Test: Guide for Biological Researchers. *Preprints 2022*; <https://doi.org/10.20944/preprints202207.0082.v1>
  
- Azizi F, Ghasemi R, EbrahimiBarough S, Ardalan M, Hadjighassem M.  
Effect of multifactorial therapeutic approach on axonal regeneration and cell viability in an in-vitro model of spinal-derived neural injury. *Cell Tissue Bank* 24, 471–484 (2023). <https://doi.org/10.1007/s10561-022-10047-z>
  
- Bagheri-Mohammadi S, Askari S, Alani B, Moosavi M, Ghasemi, R.  
Cinnamaldehyde Regulates Insulin and Caspase-3 Signaling Pathways in the Sporadic Alzheimer’s Disease Model: Involvement of Hippocampal Function via IRS-1, Akt, and GSK-3 $\beta$  Phosphorylation. *J Mol Neurosci* 72, 2273–2291 (2022). <https://doi.org/10.1007/s12031-022-02075-x>
  
- Nazari, M., Jafari, A., Torabi, Vajed-Samiei, T., Ghasemi,R., Fahanik-babaei, J, Eliassi, A.  
The Effect of 40-Hz White LED Therapy on Structure–Function of Brain Mitochondrial ATP-Sensitive Ca-Activated Large-Conductance Potassium Channel in Amyloid Beta Toxicity. *Neurotox Res* 40, 1380–1392 (2022). <https://doi.org/10.1007/s12640-022-00565-9>
  
- Askari S, Javadpour P, Rashidi FS, Dargahi L, Kashfi K, Ghasemi R.  
Behavioral and Molecular Effects of Thapsigargin-Induced Brain ER-Stress: Encompassing Inflammation, MAPK, and Insulin Signaling Pathway. *Life*. 2022;12(9):1374. <https://doi.org/10.3390/life12091374>

- Pourhadi M, Niknam Z, Ghasemi R, Soufi Zomorrod M, Niazi V, Faizi M, Zali H, Mojab F.

Cuscuta epithymum Murr. crude extract pre-conditioning protects C6 cells from L-glutamate-induced neurotoxicity. *BMC Complement Med Ther* 22, 335 (2022). <https://doi.org/10.1186/s12906-022-03816-6>

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

Endoplasmic reticulum stress as an underlying factor in leading causes of blindness and potential therapeutic effects of 4-phenylbutyric acid: from bench to bedside. *Expert Rev Ophthalmol*. 2022;17(6):415–25. <https://doi.org/10.1080/17469899.2022.2145945>

- Javadpour P, Askari S, Ghasemi R. (2022).

Nutrition, Cognitive Functions, and Emotions. In: Mohamed, W., Kobeissy, F. (eds) *Nutrition and Psychiatric Disorders. Nutritional Neurosciences.* Springer, Singapore. [https://doi.org/10.1007/978-981-19-5021-6\\_2](https://doi.org/10.1007/978-981-19-5021-6_2)

- Pourhadi M, Niknam Z, Ghasemi R, Soufi Zomorrod M, Niazi V, Faizi M, Zali H, Mojab F.

Cuscuta epithymum Murr. crude extract pre-conditioning inhibits cell apoptosis in glutamate-induced cytotoxic condition, 31 August 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-1950388/v1>]

- Naseri F, Sirati-Sabet M, Sarlaki F, Keimasi M, Mokarram P, Siri M, Ghasemi R, Shahsavari Z, Goshadrou F.

Ghrelin regulates crosstalk between apoptosis, necroptosis and autophagy programmed cell death pathways in the hippocampal neurons of amyloid- $\beta$  1–42-induced rat model of Alzheimer's disease, 14 June 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-1726826/v1>]

- Nazari M, Vajed-Samiei T, Torabi N, Fahanik-Babaei, J, Saghiri R, Khodaghali F, Eliassi A.

The 40-Hz White Light-Emitting Diode (LED) Improves the Structure–Function of the Brain Mitochondrial KATP Channel and Respiratory Chain Activities in Amyloid Beta Toxicity. *Mol Neurobiol* 59, 2424–2440 (2022). <https://doi.org/10.1007/s12035-021-02681-7>