

## Publication

1. Azhdar Heydari, **Shima Davoudi** |The effect of sertraline and 8-OH-DPAT on the PTZ\_induced seizure threshold: Role of the nitregeric system| European Journal of Epilepsy-Seizure | DOI: 10.1016/j.seizure.2016.12.005
2. Razieh Hajisoltani, Seyed Asaad Karimi, Mona Rahdar, **Shima Davoudi**, Mehdi Borjkhani, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi |Hyperexcitability of hippocampal CA1 pyramidal neurons in male offspring of a rat model of autism spectrum disorder (ASD) induced by prenatal exposure to valproic acid: A possible involvement of Ih channel current| Brain research journal | DOI: 10.1016/j.brainres.2018.12.011
3. Maryam Khodaverdi, Mona Rahdar, **Shima Davoudi**, Razieh Hajisoltani, Zohreh Tavssoli, Zahra Ghasemi, AeenEbrahim Amini, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi | 5-HT7 receptor activation rescues impaired synaptic plasticity in an autistic-like rat model induced by prenatal VPA exposure | Neurobiology of Learning and Memory | DOI: 10.1016/j.nlm.2021.107462
4. Negin Saeedi, Mahgol Darvishmolla, Zohreh Tavassoli, **Shima Davoudi**, Soomaayeh Heysieattalab, Narges Hosseinmardi, Mahyar Janahmadi, Gila Behzadi | The role of hippocampal glial glutamate transporter (GLT-1) in morphine-induced behavioral responses| Brain and Behavior | DOI: 10.1002/brb3.2323
5. Shima Ebrahimi Khonacha, Seyed Hamidreza Mirbehbahani, Mona Rahdar, **Shima Davoudi**, Mehdi Borjkhani, Fariba Khodaghli, Fereshteh Motamedi, Mahyar Janahmadi | Kisspeptin-13 prevented the electrophysiological alterations induced by amyloid-beta pathology in rat: Possible involvement of stromal interaction molecules and pCRE | Brain Research Bulletin | DOI: 10.1016/j.brainresbull.2022.03.003
6. Mona Rahdar, Razieh Hajisoltani, **Shima Davoudi**, Seyed Asaad Karimi, Mehdi Borjkhani, Vahid Ahli Khatibi , Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi |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 Research |DOI: 10.1016/j.brainres.2022.148013
7. Vahid Ahli Khatibi, Mona Rahdar, Mahmoud Rezaei, **Shima Davoudi**, Milad Nazari, Mohammad Mohammadi, Mohammad Reza Raoufy, Javad Mirnajafi-Zadeh, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi| The Glycolysis Inhibitor 2-Deoxy-d-Glucose Exerts Different Neuronal Effects at Circuit and Cellular Levels, Partially Reverses Behavioral Alterations and does not Prevent NADPH Diaphorase Activity Reduction in the Intrahippocampal Kainic Acid Model of Temporal Lobe Epilepsy | Neurochemical Research | DOI: 10.1007/s11064-022-03740-8

8. Vahid Ahli Khatibi, Morteza Salimi, Mona Rahdar, Mahmoud Rezaei, Milad Nazari, Samaneh Dehghan, **Shima Davoudi**, Mohammad Reza Raoufy, Javad Mirnajafi-Zadeh, Mohammad Javan, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi | Glycolysis inhibition partially resets epilepsy-induced alterations in the dorsal hippocampus-basolateral amygdala circuit involved in anxiety-like behavior | Scientific Report | [https:// doi.org/10.1038/s41598-023-33710-1](https://doi.org/10.1038/s41598-023-33710-1)
9. **Shima Davoudi**, Mona Rahdar, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi | Chronic inhibition of astrocytic aquaporin-4 induces autistic-like behavior in control rat offspring similar to maternal exposure to valproic acid | Physiology and Behavior | <https://doi.org/10.1016/j.physbeh.2023.114286>
10. Zahra Hosseindokht, **Shima Davoudi**, Mona Rahdar, Mahyar Janahmadi, Mohammadreza Kolahdouz, Pezhman Sasanpour | Photoacoustic viscoelasticity assessment of prefrontal cortex and cerebellum in normal and prenatal valproic acid-exposed rats | Photoacoustics | <https://doi.org/10.1016/j.pacs.2024.100590>
11. Mona Rahdar, **Shima Davoudi**, Samaneh Dehghan, Mohammad Javan, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi | Reversal of electrophysiological and behavioral deficits mediated by 5-HT<sub>7</sub> receptor upregulation following LP-211 treatment in an autistic-like rat model induced by prenatal valproic acid exposure | Neuropharmacology | <https://doi.org/10.1016/j.neuropharm.2024.110057>
12. Mohammad J. Eslamizade, Fatemeh Saffarzadeh, Sanaz Khatami, **Shima Davoudi**, Zahra Soleimani, Sara Anajafi, Amineh Khoshnazar, Mehdi Mehdizadeh, Samira Mohammadi-Yeganeh, Mahyar Janahmadi | Deregulation of Melatonin Receptors and Differential Modulation of After-Hyperpolarization and I<sub>h</sub> Currents Using Melatonin Treatment Due to Amyloid- $\beta$ -Induced Neurotoxicity in the Hippocampus | Cell Biochemistry and Function | <https://doi.org/10.1002/cbf.4129>
13. **Shima Davoudi**, Ablofazl Ardjmand, Azhdar Heydari | Effects of dietary nitrate or nitrite supplementation on inhibitory avoidance task and pentylentetrazole induced clonic seizure threshold in mice | Physiology and Pharmacology | <http://dx.doi.org/10.61186/phypha.28.3.295>
14. **Shima Davoudi**, Mona Rahdar, Mehdi Borjkhani, Hamid Alavi-Majd, Narges Hosseinmardi, Gila Behzadi, Mahyar Janahmadi | The Impact of Astroglia Kir4.1 Channel Dysfunction on Neuronal Activity and Autism-Related Behavioral Abnormalities | Glia | <https://doi.org/10.1002/glia.24676>