

Personal information

First Name: Narges

Last Name: Hosseinmardi

Nationality: Iranian

Place of Birth: Iran/Tehran

E-mail: nargeshosseinmardi@gmail.com, nhosseinmardi@sbmu.ac.ir

Address: Department of Physiology and Neurophysiology Research Center, Medical School, Shahid Beheshti University of Medical Sciences, P.O.Box 19835-181, Evin, Tehran, Iran.

Tel: 098 21 22439971

Fax: 09821 22439971

EDUCATIONAL RECORDS

Degree	Institution	Field	Date of graduation
M.Sc.	Tarbiat Modarres Univ	Physiology	2004
Ph.D	Tarbiat Modarres Univ	Physiology	2009

MEMBERSHIP OF SCIENTIFIC SOCIETIES

International Brain Research Organization (IBRO)

Iranian Society of Physiology and Pharmacology

Iranian Epilepsy Society

Medical Council of I.R.I.

RESEARCH EXPERIENCES

Field potential recording set up preparation

Field potential recording from rat hippocampus (In vitro & In vivo)

Slice preparation from Hippocampus in rat

Electrical Kindling Model of Epilepsy

Brain Cannulation in rat

Stereotaxic surgery

RNA extraction

cDNA making

RT-PCR

TEACHING EXPERIENCES

Neurophysiology, Medical and MSc and PhD Students

Cardiovascular Physiology, Medical and MSc and PhD physiology Students

Endocrine Physiology, Medical and MSc and PhD physiology Students

Cell Physiology, Medical Students

PUBLICATION

Maladaptive plasticity induced by morphine is mediated by hippocampal astrocytic Connexin-43. Darvishmolla M., Saeedi N., Tavassoli Z., Heysieattalab S., Janahmadi M., **Hosseinmardi N.** *Life Science*, 330:121969 (2023).

Glycolysis inhibition partially resets epilepsy-induced alterations in the dorsal hippocampus-basolateral amygdala circuit involved in anxiety-like behavior. Khatibi VA., Salimi M., Rahdar M., Rezaei M., Nazari M., Dehghan S., Davoudi S., Raoufy MR., Mirnajafi-Zadeh J., Javan M., **Hosseinmardi N.**, Behzadi G., Janahmadi M. *Scientific Reports*, 13(1):6520 (2023).

Electrical impulses evoked activity patterns in ventral tegmental area and locus coeruleus modulate endogenous and learning-dependent disparity of cell proliferation along the mouse dentate gyrus. Tavassoli Z., Javan M., **Hosseinmardi N.**, Fathollahi Y. *IBRO Neurosci Rep.*, 14:293-307 (2023).

Adolescent morphine exposure impairs dark avoidance memory and synaptic potentiation of ventral hippocampal CA1 during adulthood in rats. Khani F., Pourmotabbed A., Veisi M., **Hosseinmardi N.**, Fathollahi Y., Azizi H. *Life Sci.*, **314:121344 (2023)**.

Acute adolescent morphine exposure improves dark avoidance memory and enhances long-term potentiation of ventral hippocampal CA1 during adulthood in rats. Khani F., Pourmotabbed A., **Hosseinmardi N.**, Alaei E., Fathollahi Y., Azizi H. *Addict Biol.* 28(8):e13308 (2023).

Chronic inhibition of astrocytic aquaporin-4 induces autistic-like behavior in control rat offspring similar to maternal exposure to valproic acid. Davoudi S., Rahdar M., **Hosseinmardi N.**, Behzadi G., Janahmadi M. *Physiol Behav.* 1;269:114286 (2023).

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. Khatibi VA., Rahdar M., Rezaei M., Davoudi S., Nazari M., Mohammadi M., Raoufy MR., Mirnajafi-Zadeh J., **Hosseinmardi N.**, Behzadi G., Janahmadi M. *Neurochem Res.* 48(1):210-228 (2023).

Preventive putative effect of agmatine on cognitive and molecular outcomes in ventral tegmental area of male offspring following physical and psychological prenatal stress. Hassanshahi A., Janahmadi M., Razavinasab M., Ranjbar H., **Hosseinmardi N.**, Behzadi G., Kohlmeier KA., Ilaghi M., Shabani M. *Dev Psychobiol.*, 65(6):e22410 (2023).

Development of anxiety-like behaviors during adolescence: Persistent effects of adolescent morphine exposure in male rats. Khani F., Pourmotabbed A.,

Hosseinmardi N., Seyed Ershad Nedae, Fathollahi Y., Azizi H. Developmental Psychobiology 64,7 (2022).

Hippocampal orexin-1 and endocannabinoid-1 receptors underlie the kainate-induced occlusion in theta-burst long-term potentiation. Nasudi G., Elahdadi Salmani M., **Hosseinmardi N., Farshad Moradpour, Lashkarbolouki T., Goudarzi I. Neuropeptides.** 95, 102263 (2022).

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. Rahdar M., Hajisoltani R., Davoudi S., Seyed Asaad Karimi, Mehdi Borjkhani, Vahid Ahli Khatibi, **Hosseinmardi N, Behzadi G., Janahmadi M. Brain Research.** 1, 1792 (2022).

Glial cells inhibition affects the incidence of metaplasticity in the hippocampus of Pentylentetrazole-induced kindled rats. Tavassoli Z., Giahi M., Janahmadi M., **Hosseinmardi N. Epilepsy and Behavior.** 2022.

Impairment of spatial memory and dorsal hippocampal synaptic plasticity in adulthood due to adolescent morphine exposure. Khani F., Pourmotabbed A., **Hosseinmardi N., Seyed Ershad Nedaei, Fathollahi Y., Azizi H. Progress in Neuro-Psychopharmacology and Biological Psychiatry.** 8, 116 (2022).

Involvement of Hippocampal Astrocytic Connexin-43 in Morphine dependence. Darvishmolla M., Heysieattalab S., Saeedi N., **Hosseinmardi N., Janahmadi M. Physiology and Behavior.** 1, 247 (2022).

Spatial working memory is disparately interrelated with social status through different developmental stages in rats. Jaafari suha A., **Hosseinmardi N., Janahmadi, M. Behavioural Brain Research.** 7, 416 (2022).

The effects of glial cells inhibition on spatial reference, reversal and working memory deficits in a rat model of traumatic brain injury (TBI). Rezagholizadeh A., Karimi S.A., **Hosseinmardi N., Janahmadi M., Sayyah M. International Journal of Neuroscience.** 132, 3 (2022).

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. Khatibi V.A., Rahdar M., Rezaei M., Shima Davoudi, Milad Nazari, Mohammad Mohammadi, Mohammad Reza Raoufy, Javad

Mirnajafi-Zadeh, **Hosseinmardi N**, Behzadi G., Janahmadi M. **Neurochemical Research**. 5, 1-19 (2022).

Paired-pulse Inhibition and Disinhibition of the Dentate Gyrus Following Orexin Receptors Inactivation in the Basolateral Amygdala. Akbari E., **Hosseinmardi N.**, Ardeshiri M.R. **Basic and Clinical Neuroscience**. 12, 6 (2021), pp. 827-836

Non-selective COX inhibitors impair memory formation and short-term but not long-term synaptic plasticity. Soomaayeh Heysieattalab, Jafar Doostmohammadi, Mahgol Darvishmolla, Negin Saeedi, **Narges Hosseinmardi**, Masoumeh Gholami, Mahyar Janahmadi, Samira Choopani. **Naunyn-Schmiedeberg's Archives of Pharmacology** (2021).

5-HT7 receptor activation rescues impaired synaptic plasticity in an autistic-like rat model induced by prenatal VPA exposure. Maryam Khodaverdi, Mona Rahdar, Shima Davoudi, Razieh Hajisoltani, Zohreh Tavassoli, Zahra Ghasemi, Aeen Ebrahim Amini, **Narges Hosseinmardi**, Gila Behzadi, Mahyar Janahmadi. **Neurobiology of Learning and Memory** (2021).

Ameliorating Effects of Dorema ammoniacum on PTZ-Induced Seizures and Epileptiform Brain Activity in Rats. Marzieh Abizadeh, Soomaayeh Heysieattalab , Negin Saeedi, **Narges Hosseinmardi**, Mahyar Janahmadi, Farhad Salari, Seyed Mehdi Golpayegani, Asie Shojaii. **Planta Medica**, 86,18 (2020).

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. Seyed Asaad Karimi, **Narges Hosseinmardi**, Mohammad Sayyah, Razieh Hajisoltani, Mahyar Janahmadi. **Hippocampus**, 31, 2 (2020).

Starvation promotes histone lysine butyrylation in the liver of male but not female mice. Afsaneh Goudarzi, **Narges Hosseinmardi**, Siamak Salami, Fatemeh Mehdikhani, Samira Derakhshan, Pouyan Aminishakib. *Gene*, 745 (2020).

The effects of glial cells inhibition on spatial reference, reversal and working memory deficits in a rat model of traumatic brain injury (TBI). Amir Rezagholizadeh, Seyed Asaad Karimi, **Narges Hosseinmardi**, Mahyar Janahmadi, Mohammad Sayyah. **International Journal of Neuroscience** (2020).

Long-term potentiation enhancing effect of epileptic insult in the CA1 area is dependent on prior-application of primed-burst stimulation. Masoumeh Gholami, **Narges Hosseinmardi**, Javad Mirnajafi-Zadeh, Mohamad Javan, Saeed Semnianian, Nasser Naghdi, Yaghoub Fathollahi. **Experimental Brain Research**, 238, 4 (2020).

Peroxisome Proliferator-activated Receptor (PPAR)- γ Modifies A β Neurotoxin-induced Electrophysiological Alterations in Rat Primary Cultured Hippocampal

Neurons. Farideh Bahrami, Alireza Asgari, **Narges Hosseinmardi**, Mahyar Janahmadi. **Iranian Journal of Pharmaceutical Research**. 18, 3 (2019).

Characterization of Functional Effects of Two New Active Fractions Isolated From Scorpion Venom on Neuronal Ca²⁺ Spikes: A Possible Action on Ca²⁺-Dependent Dependent K⁺ Channels. Hanieh Tamadon, Zahra Ghasemi, Fatemeh Ghasemi, **Narges Hosseinmardi**, Hossein Vatanpour, Mahyar Janahmadi. **Basic and clinical Neuroscience**, 10, 1 (2019).

Ca²⁺ Channels Involvement in Low-Frequency Stimulation-Mediated Suppression of Intrinsic Excitability of Hippocampal CA1 Pyramidal Cells in a Rat Amygdala Kindling Model. Ghotbeddin Z, Heysieattalab S, Borjkhani M, Mirnajafi-Zadeh J, Semnianian S, Hosseinmardi N, Janahmadi M. **Neuroscience**. 16;406:234-248 (2019).

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 I_h channel current. Hajisoltani R, Karimi SA, Rahdar M, Davoudi S, Borjkhani M, **Hosseinmardi N**, Behzadi G, Janahmadi M. **Brain Res**. 1;1708:188-199 (2019).

The basolateral amygdala orexin 1 and 2 receptors' involvement in modulating spatial reference memory. Ardeshiri MR, **Hosseinmardi N**, Akbari E. **Brain Res**. 1;1704:16-25 (2019).

Effects of *Dorema ammoniacum* Gum on Neuronal Epileptiform Activity-Induced by Pentylentetrazole. Ghasemi F, Tamadon H, Hosseinmardi N, Janahmadi M. **Iran J Pharm Res**. 17(2):735-742 (2018).

Glial cells modulate hippocampal synaptic plasticity in morphine dependent rats. Elahi-Mahani A, Heysieattalab S, **Hosseinmardi N**, Janahmadi M, Seyedaghamiri F, Khoshbouei H. **Brain Res Bull**. 140:97-106 (2018).

Hippocampal glial cells modulate morphine-induced behavioral responses. Seyedaghamiri F, Heysieattalab S, **Hosseinmardi N**, Janahmadi M, Elahi-Mahani A, Salari F, Golpayegani M, Khoshbouei H. **Physiol Behav**. 1;191:37-46 (2018).

Orexin 1 and orexin 2 receptor antagonism in the basolateral amygdala modulate long-term potentiation of the population spike in the perforant path-dentate gyrus-evoked field potential in rats. Ardeshiri MR, Hosseinmardi N, Akbari E. **Neurobiol Learn Mem**. 149:98-106 (2018).

Adiponectin modulates synaptic plasticity in hippocampal dentate gyrus. Pousti F, Ahmadi R, Mirahmadi F, **Hosseinmardi N**, Rohampour K. **Neurosci Lett**. 1;662:227-232 (2018).

The protective effect of hydrogen sulfide (H₂S) on traumatic brain injury (TBI) induced memory deficits in rats. Karimi SA, **Hosseinmardi N**, Janahmadi M, Sayyah M, Hajisoltani R. **Brain Res Bull**. 134:177-182 (2017).

Antagonism of orexin type-1 receptors (OX1Rs) attenuates naloxone-precipitated morphine withdrawal syndrome in rat dorsal hippocampus. Hooshmandi M, **Hosseinmardi N**, Janahmadi M, Khakpai F, Rohampour K, Doostmohammadi J. **Pharmacol Biochem Behav.** 158:39-48 (2017).

Intracerebroventricular administration of adiponectin attenuates streptozotocin-induced memory impairment in rats. Mazrooie R, Rohampour K, Zamani M, **Hosseinmardi N**, Zeraati M. **Physiol Int.** 1;104(2):150-157 (2017).

The effect of orexin 1 and orexin 2 receptors antagonisms in the basolateral amygdala on memory processing in a passive avoidance task. Ardeshiri MR, Hosseinmardi N, Akbari E. **Physiol Behav.** 15(174): 42-48 (2017).

Methamphetamine-Induced Enhancement of Hippocampal LTP Is Modulated by NMDA and GABA Receptors in the Shell-Accumbens. Heysieattalab S, Naghdi N, **Hosseinmardi N**, Zarrindast MR, Haghparast A, Khoshbouei H. **Synapse.** 70(8):325-35 (2016).

Anti-nociceptive effect of Tanacetum Fisheriae on formalin-induced inflammatory pain in rats. Mohsen Fathi, **Narges Hosseinmardi**, Kambiz Rohampour, Mahyar Janahmadi, Ali Sonboli, Jalal Zaringhalam, **Physiol Pharmacol** 20: 189-196 (2016).

Prepubertal castration-associated developmental changes in sigma-1 receptor gene expression levels regulate hippocampus area CA1 activity during adolescence. Moradpour F, Fathollahi Y, Naghdi N, **Hosseinmardi N**, Javan M. **Hippocampus.** 26(7):933-46 (2016).

Non-selective NSAIDs improve the amyloid- β -mediated suppression of memory and synaptic plasticity. Doost Mohammadpour J, Hosseinmardi N, Janahmadi M, Fathollahi Y, Motamedi F, Rohampour K. **Pharmacol Biochem Behav.** 17;132:33-41 (2015).

Alterations in CA1 pyramidal neuronal intrinsic excitability mediated by Ih channel currents in a rat model of Amyloid beta pathology. Eslamizade MJ, Saffarzadeh F, Mousavi SM, Meftahi G, **Hosseinmardi N**, Mehdizadeh M, Janahmadi M. **Neuroscience.** 305: 279–292 (2015).

Suppressive Effects of Resveratrol Treatment on The Intrinsic Evoked Excitability of CA1 Pyramidal Neurons. **Cell Journal** Gholamhossein Meftahi, Zohreh Ghotbedin, Mohammad Javad Eslamizade, **Narges Hosseinmardi**, Mahyar Janahmadi. 17: 532-539 (2015).

Pre-training Catechin gavage prevents memory impairment induced by intracerebroventricular streptozotocin in rats. Zamani M, Rohampour K, Zeraati M, **Hosseinmardi N**, Kazemian MM. **Neurosciences (Riyadh).** 20: 225-229 (2015).

Induction of spinal long-term synaptic potentiation is sensitive to inhibition of neuronal NOS in L5 spinal nerve-transected rats. Zahra Bahari, Homa Manaheji, **Narges Hosseinmardi**, Gholam Hossein Meftahi, Mehdi Sadeghi, Samira Danialy, Seyed Mohammad Noorbakhsh. **EXCLI Journal**, 13:751-760 (2014).

Prepubertal castration causes the age-dependent changes in hippocampal long-term potentiation. Moradpour F, Fathollahi Y, Naghdi N, **Hosseinmardi N**, Javan M. *Synapse*. 67:235-44, (2013).

Astrocyte- neuron interaction as a mechanism responsible for generation of neural synchrony: a study based on modeling and experiments. Mahmood Amiri, **Narges Hosseinmardi**, Fariba Bahrami, Mahyar Janahmadi. *J Comput Neurosci*, 34(3):489-504, (2013).

In vivo sodium salicylate causes tolerance to acute morphine exposure and alters the ability of high frequency stimulation to induce long-term potentiation in hippocampus area CA1. **Narges Hosseinmardi**, Lila Azimi, Yaghoub Fathollahi, Mohammad Javan, Naser Naghdi. *European Journal of Pharmacology*, 30;670(3):487-94, (2011).

Theta pulse stimulation: A natural stimulus pattern can trigger long-term depression but fails to reverse long-term potentiation in morphine withdrawn hippocampus area CA1, **Narges Hosseinmardi**, Yaghoub Fathollahi, Nasser Naghdi, Mohammad Javan, *Brain Research*, 1296:1-14 (2009).

MATERNAL EXPOSURE TO THE CB1 CANNABINOID AGONIST WIN 55212-2 PRODUCES ROBUST CHANGES IN MOTOR FUNCTION AND INTRINSIC ELECTROPHYSIOLOGICAL PROPERTIES OF CEREBELLAR PURKINJE NEURONS IN RAT OFFSPRING. M. SHABANI, **N. HOSSEINMARDI**, M. HAGHANI, V. SHAIBANI AND M. JANAHMADI. *Neuroscience* 172 (2011) 139-152.

Curcuminoids Rescue Long-Term Potentiation Impaired by Amyloid Peptide in Rat Hippocampal Slices. TOUQEER AHMED, ANWARUL-HASSAN GILANI, **NARGES HOSSEINMARDI**, SAEED SEMNANIAN, SYED ATHER ENAM, AND YAGHOUB FATHOLLAHI. *SYNAPSE* 66:572-582 (2011).

LONG-TERM IN VITRO MORPHINE DISAPPEARS ENHANCEMENT OF PAIRED PULSE FACILLITATION (PPF) IN WITHDRAWN SLICES. N Hosseinmardi, Y Fathollahi, N Naghdi, M Javan - *JOURNAL OF PHYSIOLOGICAL SCIENCES*, (2009).

The role of adenosine A₁ and A_{2A} receptors of entorhinal cortex on piriform cortex kindled seizures in rats, **Narges Hosseinmardi**, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi and Parviz Shahabi, *Pharmacological Research*, 56: 110-117 (2007).

Amygdala adenosine A₁ receptors have no anticonvulsant effect on piriform cortex kindled seizures in rat, Parviz Shahabi, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi, **Narges Hosseinmardi**, Mohammad Ebrahim Rezvani, and Ali Eslami- Far, *Can. J. Physiol. Pharmacol.*, 84: 913-921 (2006).

Reducing the Morphine Induced Conditioned Place Preference Acquisition by Inhibition of Glial Cells in the Hippocampus. Fatemeh Sadat Seyedaghamiri1, **Narges Hosseinmardi**, Mahyar Janahmadi, Azadeh Elahi Mahani. *Arak Medical University Journal (AMUJ)*, 18(102): 12-22 (2015)

The Role of Glial Cells in Baseline Synaptic Response and Short Term Synaptic Plasticity of CA1 Area of the Hippocampus. Azadeh Elahi-Mahani, **Narges Hosseinmardi**, Mahyar Janahmadi, Fatemehsadat Seyedaghamiri, Mehdi Hooshmandi. **J Mazandaran Univ Med Sci** 2016; 26(135): 51-61

The effect of Dorema ammoniacum pretreatment on the progression of seizures induced by chemical kindling in rats. M Abizadeh, **N Hosseinmardi**, S Ebrahimi, M Janahmadi, A Shojaii, Fereshteh Motamedi. *Pajoohandeh Journal*. 19 (5), 228-234 (2014)

Evaluation of the L5 spinal nerve ligation on A δ -and C-fibers activation threshold and also LTP-induced by electrical high frequency stimulation of sciatic nerve in spinal dorsal horn of rats. Zahra Bahari, Homa Manaheji, **Narges Hosseinmardi**, Gholam Hosein Meftahi, Mehdi Sadeghi, Seyyed Mohammad Noorbakhsh, *KAUMS Journal (FEYZ)*. 18 (4), 325-335, (2014).

The role of hippocampal orexin-1 receptors (OX1R) in mediating the effect of morphine on CA1 baseline synaptic response and short term synaptic plasticity. M Hooshmandi, **N Hosseinmardi**, M Janahmadi, F Motamedi, Azadeh Elahi Mahani, F Fatemeh Sadat Aghamiri. *Arak Medical University Journal*. 17 (6), 84-95 (2014).

Induction of a rat model of Alzheimer's disease by amyloid- β did not change short term synaptic plasticity in CA1 area of hippocampus. Jafar Doost mohammad pour, **N Hosseinmardi**, M Janahmadi, S Ebrahimi, Y Fathollahi, F Motamedi, *Koomesh* 16 (1), 76-81 (2014).

Aspirin changes short term synaptic plasticity in CA1 area of the rat hippocampus, Jafar Doost Mohammad pour, **Narges Hosseinmardi**, Mahyar Janahmadi, Yaghoub Fathollahi, Fereshteh Motamedi, and Mehdi Hooshmandi, *Iranian J. of Physiology and Pharmacology*, 17 (3): 298-307 (2013).

Augmentation of paired pulse index as short-term plasticity due to morphine dependence, **Narges Hosseinmardi**, Leila Azimi, Mohammad Javan, Naser Naghdi, Yaghoub Fathollahi, *Iranian J. of Physiology and Pharmacology*, 13 (2): 108-119 (2009).

The effect of intraentorhinal injection of selective A_{2A} receptor agonist on piriform cortex kindled seizures in rats, **Narges Hosseinmardi**, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi, Parviz Shahabi, Mohammad Ebrahim Rezvani, and Maryam Zeraati, *Iranian J. of Physiology and Pharmacology*, 9 (1): 41-46 (2005).

The effect of intraentorhinal injection of selective A₁ receptor agonist on piriform cortex kindled seizures in rats, **Narges Hosseinmardi**, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi, Parviz Shahabi, Mohammad Ebrahim Rezvani, simin Namvar, and Mohammad Reza Palizvan, *Trauma Monthly (Kosar Medical Journal)* , 10 (2): 103-110 (2005).

Effect of electrical lesion of amygdale basolateral nuclei on piriform cortex kindled seizures in rat, Parviz Shahabi, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi,

Narges Hosseinmardi, Mohammad Ebrahim Rezvani, Ali Eslami-Far, and Zahra deljou, *Iranian J. of Physiology and Pharmacology*, 9 (2): 99-105 (2006).

Adenosine A₁ receptors of amygdala has not anticonvulsant effects on piriform cortex kindled seizures in rat, Parviz Shahabi, Javad Mirnajafi-Zadeh, Yaghoob Fathollahi, **Narges Hosseinmardi**, Mohammad Ebrahim Rezvani, and Simin Namvar, *J. of Semnan University of Medical Sciences (Koomesh)*, 6 (3): 229-235 (2005).

The role of adenosine A₁ receptors activity of piriform cortex neurons on amygdala kindled seizures in rat, Mohammad Ebrahim Rezvani, Javad Mirnajafi-Zadeh, Yaghoob Fathollahi, Mohammad Reza Palizvan, **Narges Hosseinmardi**, and Parviz Shahabi, *CELL JOURNAL (Yakhteh Medical Journal)*, 6 (24): 188-193 (2005).

Role of adenosine A_{2A} receptors of hippocampus CA1 region on piriform cortex kindled rats, Maryam Zeraati, Javad Mirnajafi-Zadeh, Yaghoob Fathollahi, Mohammad Ebrahim Rezvani, and **Narges Hosseinmardi**, *Trauma Monthly (Kosar Medical Journal)*, 10 (3): 168-173 (2005).

The Role of Piriform Cortex Adenosine A₁ Receptors in Hippocampal kindled seizures in Rats, Simin Namvar, Javad Mirnajafi-Zadeh, Yaghoob Fathollahi, Mohammad Ebrahim Rezvani, Parviz Shahabi, **Narges Hosseinmardi**, Parviz Ghorbani, and Maryam Zeraati, *Razi Journal of Medical Sciences (J. of Iran University of Medical Sciences)*, 13 (51): 197-204 (2006).

ABSTRACT IN CONGRESS

Hosseinmardi Narges, Doost mohammadpour Jafar, Janahmadi Mahyar. Non-Selective NSAIDs do not affect long term synaptic plasticity but induce memory impairment. 8th FAOPS Congress, 22-25 November 2015, Bangkok, Thailand.

Narges Hosseinmardi, Yaghoob Fathollahi, Mohammad Javan, Nasser Naghdi, Theta pulse stimulation: a natural stimulus pattern can alter NMDA receptor subunits composition in hippocampus area CA1 of morphine dependent rats, (8th IBRO world congress of neuroscience) 14-18 July, 2011, Florence, Italy.

Hosseinmardi Narges, Janahmadi Mahyar, Fathollahi Yaghoob, Naghdi Nasser · ELECTROPHYSIOLOGICAL INTERACTION BETWEEN HIPPOCAMPAL CA1 PYRAMIDAL NEURONS AND GLIAL CELLS IN NEURONAL SYNCHRONIZATION, (1st IBRO Middle East Neuroscience Conference), 07-09 February, 2011, Al Ain, United Arab Emirates.

Sharareh Dariani, **Narges Hosseinmardi**, Mahyar Janahmadi, Minocycline alters the electrophysiological properties of CA1 pyramidal neurons in rats, 5th Federation of Asian- oceanic Neuroscience Societies (FAONS) Symposium, 28-30, November, 2010, India.

Narges Hosseinmardi, Yaghoob Fathollahi, Nasser Naghdi, Mohammad Javan, Long-term in vitro morphine disappears enhancement of paired pulse facilitation

(PPF) in withdrawn slices, (The 36th International congress of physiological sciences, IUPS 2009) 27 July-1 August, 2009, Kyoto, **Japan**.

Narges Hosseinmardi, Javad Mirnajafi-Zadeh, Yaghoub Fathollahi, Parviz Shahabi, Effect of intraentorhinal microinjection of selective A2A receptor agonist on piriform cortex kindled seizures in rats, (the 6th Congress of the Federation of Asian Ocean in Physiological Societies) 15-18 October, 2006, Seoul, Korea.

J. Mirnajafi-Zadeh, P. Shahabi, Y. Fathollahi, **N. Hosseinmardi**, Adenosine A1 receptors of amygdala have no anticonvulsant effects on piriform cortex kindled seizures in rats, (26th International Epilepsy Congress) 28 August-1 September, 2005, Paris, **France**.

J. Mirnajafi-Zadeh, **N. Hosseinmardi**, P. Shahabi, Effect of intraentorhinal microinjection of selective A2A receptor agonist on piriform cortex kindled seizures in rats, (The 28th Annual Meeting of the Japan neuroscience Society) 26-28 July, 2005, Yokohama, **Japan**.

N. Hosseinmardi, J. Mirnajafi-Zadeh, Y. Fathollahi and P. Shahabi, Effect of intraentorhinal microinjection of selective A₁ receptor agonist on piriform cortex kindled seizures in rats, (The 7th IBRO world congress of neuroscience) 12-17 July, 2007, Melbourne, Victoria, **Australia**.

N. Hosseinmardi, J. Mirnajafi-Zadeh, Y. Fathollahi, P. Shahabi, M.E. Rezvani, Effect of entorhinal cortex adenosine A1 receptors on piriform cortex kindled seizures in rats, 17th Iranian Congress of Physiology and Pharmacology, 2005, Kerman, **Iran**.

M.E. Rezvani, J. Mirnajafi-Zadeh, Y. Fathollahi, **N. Hosseinmardi**, P. Shahabi, M.R. Palizvan, Effect of piriform cortex adenosine A1 receptors on amygdala kindled seizures in rats, 17th Iranian Congress of Physiology and Pharmacology, 2005, Kerman, **Iran**.

N. Hosseinmardi, J. Mirnajafi-Zadeh, Y. Fathollahi, P. Shahabi, Effect of entorhinal cortex adenosine A2A receptors on piriform cortex kindled seizures in rats, 18th Iranian Congress of Physiology and Pharmacology, 2007, Mashhad, **Iran**.

J. Mirnajafi-Zadeh, P. Shahabi, Y. Fathollahi, **N. Hosseinmardi**, Adenosine A₁ receptors of amygdala has not anticonvulsant effects on piriform cortex kindled seizures in rat, 13th Iranian Biology Conference & 1th International of Biology Conference, 2003, Gilan, Iran.

N. Hosseinmardi, Y. Fathollahi, M. Javan, N. Naghdi. Morphine dependence does not change baseline synaptic response, 19th Iranian Congress of Physiology and Pharmacology, Tehran, Iran.

Narges Hosseinmardi, Sharareh Dariani, Masoud Haghani and Mahyar Janahmadi, Effect of functional inhibition of glial cells on PTZ-induced epileptic

activity in hippocampal CA1 pyramidal neurons of rat, 20th Iranian Congress of Physiology and Pharmacology, Hamedan, Iran.

Narges Hosseinmardi, Saeed Semnianian, Fereshteh PourAbdolHosseini, Samaneh Dehghan, Mehdi Sadegh, Evaluation of physiology and pharmacology situation and planning for future, 20th Iranian Congress of Physiology and Pharmacology, Hamedan, Iran.

Doost Mohammadpour Jafar, **Hosseinmardi Narges**, Janahmadi Mahyar, Fathollahi Yaghoub, Motamedi Fereshteh, Aspirin and sodium salicylate decreased basal synaptic responses in CA1 area of hippocampus but did not change test pulse, threshold, and maximum intensity, 21st Iranian Congress of Physiology and Pharmacology, Tabriz, Iran.

Hooshmandi Mehdi, **Hosseinmardi Narges**, Janahmadi Mahyar, Doost Mohammadpour Jafar, Doost Mohammadpour Jafar, Effect of orexin-1 receptors (OX1R) blockade in CA1 area of hippocampus on morphine withdrawal syndrome in rats, 21st Iranian Congress of Physiology and Pharmacology, Tabriz, Iran.

Sasan Gazerani, Jalal Zarin Ghalam, **Hosseinmardi Narges**, The role of C-fibers in hyperalgesia during inflammatory arthritis in male rats, 21st Iranian Congress of Physiology and Pharmacology, Tabriz, Iran.

Azadeh Elahi-Mahani, **Narges Hosseinmardi**, Mahyar Janahmadi, Fatemehsadat Seyedaghamiri, Mehdi Hooshmandi, The role of CA1 glial cells on augmented LTP in morphine-dependent rats. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Mahyar Jan Ahmadi, Gholamhossein Meftahi, **Nargess Hosseinmardi**, Zohreh Ghotbedin, Neuroprotective effects of resveratrol against amyloid beta-induced neurotoxicity with a focus on electrophysiological mechanisms. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Narges Hosseinmardi, Jafar Doost Mohammadpour, Mahyar Janahmadi, Protective effect of non selective NSAIDs on synaptic plasticity and memory impairments induced by amyloid- β (A β) neurotoxicity. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Seyed Asaad Karimi, **Narges Hosseinmardi**, Mahyar Janahmadi, Mohammad Sayyah, Effect of hydrogen sulfide on traumatic brain injury-induced memory deficit in rat. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Alireza Farzaei, Sharareh Daryani, **Narges Hosseinmardi**, Mahyar Janahmadi, Inhibiting glial cell activity exacerbate the changes in the intrinsic electrophysiological properties of CA1 pyramidal neurons induced by Pentylentetrazole. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Seyed Mehdi Golpayegani, Farhad Salari, Zohreh Tavassoli, **Narges Hosseinmardi**, Mahyar Janahmadi, Asie Shojaii, *Dorema ammoniacum* suppresses epileptic seizures induced by chemical kindling in rats. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Farhad Salari, Seyed Mehdi Golpayegani, Shima Ebrahimi, **Narges Hosseinmardi**, Mahyar Janahmadi, Marzieh Abizadeh, Reza Khosrowabadi Investigating the effect of *Dorema ammoniacum* on alterations of electroencephalogram sub-bands amplitude induced by chemical kindling model of epilepsy. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Fatemehsadat Seyedaghamiri, **Narges Hosseinmardi**, Mahyar Janahmadi, Azadeh Elahi-Mahani, Inhibition of glial cells in CA1 area of the hippocampus induced withdrawal like syndrome in non-dependent rats. First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran.

Zohreh tavassoli, **Narges hosseinmardi**, Mahyar janahmadi, Inhibition of Glial cells reduces the progression of seizures induced by chemical kindling in rats. Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Mona Rahdar, Gholamhossein Meftahi, Razieh Hajisoltani, Seyed Asaad Karimi, **Narges Hosseinmardi**, Mahyar Janahmadi, The impact of the inhibition of glutamate transporters on intrinsic Ca²⁺ spike properties in hippocampal CA1 pyramidal neurons in a rat model of Alzheimer's disease. Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Negin Saeedi, Fatemehsadat Seyedaghamiri, **Narges Hosseinmardi**, Mahyar Janahmadi, Soomaayeh Heysieattalab, Inhibition of hippocampal glial cells reduces the naloxone-induced withdrawal signs in morphine dependent rats. Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Seyed Asaad Karimi, **Narges Hosseinmardi**, Mahyar Janahmadi, Alterations in CA1 pyramidal neuronal excitability mediated by I_h channel currents in a rat model of traumatic brain injury (TBI). Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Razieh hajisoltani, Mahyar janahmadi, **Narges hosseinmardi**, Gholamhossein Meftahi, Asad karimi, Alternation in I_h Currents of hippocampal CA1 pyramidal neuron in a rat model of Autism induced by Prenatal Exposure to Valproic Acid in the Offspring. Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Amir Rezagholizade, Seyed Asaad Karimi, **Narges Hosseinmardi**, Mahyar Janahmadi, Mohammad Sayyah, The effect of glial cells inhibition on reference and reversal spatial memory deficits in a rat model of traumatic brain injury (TBI). Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 2018.

Fatemeh Ghasemi, Hanieh Tamaddon, **Narges Hoseinmardi**, Mahyar Janahmadi, Contrary to phenobarbital, gum ammoniacum does not affect hyperexcitability and burst activity-induced by penetylentetrazole in snail neurons. Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran, 2018.

Honor

- Ranked 1st in the M.Sc. entrance exam in physiology.
- Ranked 1st in the M.Sc. Graduating in physiology of Tarbiat Modarres University. (2004)
- Ranked 1st in the Ph.D. entrance exam in physiology of Tarbiat Modarres University. (2004)
- Ranked 1st in the Ph.D. Graduating in physiology of Tarbiat Modarres University. (2009)
- Prize of best poster presentation in 8th IBRO world congress of neuroscience, Florence, Italy, (14-18 July, 2011)

Congress/Workshops

8th IBRO world congress of neuroscience, Florence, Italy, (14-18 July, 2011)

1st IBRO Middle East Neuroscience Conference, Al Ain, United Arab Emirates, (07-09 February, 2011)

36th International Congress of Physiological Sciences (IUPS 2009), Kyoto, Japan, (July 27th – August 1th, 2009)

7th IBRO world congress of neuroscience, Melbourne Convention Centre, Melbourne, Victoria, Australia, (12-17 July, 2007)

2nd Federation of Asian- oceanic Neuroscience Societies (FAONS) Symposium, Neuroscience Research center, Shaheed Beheshti University of Medical Sciences, Tehran, Iran, (16-19 May, 2004)

First international Symposium on molecular technology (Biotechnology in progress), Tehran, Iran, (July 30th – August 1th, 2005)

National Symposium of Neuroscience, Gorgan, 16-17 February, 2011)

IBRO School of Neuroscience, Molecular, Cellular and Behavioral Approaches to Neuroscience, Shanghai, China, (October 26th – November 4th 2009)

IBRO School of Neuroscience, Melbourne, Victoria, Australia, (2-6 July, 2007)

6th IBRO- Associate School and 1st of Neuroscience Orientation Summer Program, Tehran, Iran, (August 26th – September 21th , 2006)

13th Iranian Biology Conference & 1th International of Biology Conference, Gilan, Iran, (2003)

16th Iranian congress of physiology and pharmacology, Tarbiat Modarres University, Tehran, Iran, (2003)

17th Iranian congress of physiology and pharmacology, Kerman University of Medical Sciences, Kerman, Iran, (August, 2005)

18th Iranian congress of physiology and pharmacology, Mashhad University of Medical Sciences, Mashhad, Iran, (2007)

19th Iranian congress of physiology and pharmacology, Shaheed Beheshti University of Medical Sciences, Tehran, Iran, (2009).

20th Iranian congress of physiology and pharmacology, Hamedan University of Medical Sciences, Hamedan, Iran, (2011)

21st Iranian congress of physiology and pharmacology, Tabriz University of Medical Sciences, Tabriz, Iran, (2013)

First international and 22nd Iranian Congress of Physiology and Pharmacology, Kashan, Iran, (2015).

Second international and 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran, (2018).

8th FAOPS Congress, Bangkok, Thailand, (2015).

Workshop of “Molecular techniques in physiology”, Shahid Beheshti University, Tehran, Iran, (2003)

Workshop of advanced neuroscience, Tarbiat Modarres University, Tehran, Iran, (2004)

Workshop of “single unit recording”, Tarbiat Modarres University, Tehran, Iran, (2003)

Workshop of “field potentials recording”, Tarbiat Modarres University, Tehran, Iran, (2003)

Workshop of “patch clamp”, Tarbiat Modarres University, Tehran, Iran, (2003)
Lecture series on Scientific Writing and Communication, Tarbiat Modarres University, Tehran, Iran, (2006)

Lecture series on Scientific Ethics, Tarbiat Modarres University, Tehran, Iran, (2006)