

CURRICULUM VITAE

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Educational Background:

1995-1999 B.Sc. in Nursing from Zahedan University of Medical Sciences, Zahedan, Iran.

2002-2005 M.Sc. in Physiology from Shiraz University of Medical Sciences, Shiraz, Iran.

2005-2011 Ph.D. in Physiology from Shaheed Beheshti University of Medical Sciences, Tehran, Iran

2011 until now Assistant professor in physiology, Shiraz University of Medical Sciences, Shiraz, Iran.

Award and grant

6th Congress of the Federation of Asian and Oceanian Physiology Societies (FAOPS), Oct. 15-18, 2006 Seoul, Korea.

3rd Federation of Asian and Oceanian Neuroscience Societies (FAONS) Symposium, May 18-20, 2009 Bangkok, Thailand.

8th IBRO World Congress of Neuroscience Florence, Italy.

One year fellowship form SISSA (International School for Advanced Studies), 2010-2011, Trieste, Italy

Publication:

- 1) **Maryam Owjifard, Mohammad Reza Bigdeli, Anahid Safari, Masoud Haghani, Mohammad Reza Namavar.** Effect of Dimethyl Fumarate on the Motor Function and Spatial Arrangement of Primary Motor Cortical Neurons in the Sub-Acute Phase of Stroke in a Rat Model. *J Stroke Cerebrovasc Dis.* 2021 Apr;30(4):105630
- 2) **Gholam Hossein Meftahi, Mahnaz Baya, Amir Hossein Zarifkar, Somaye Akbari, Afshin Borhani Haghghi , Maryam Naseh, Amirhossein Yousefi Nejad , Masoud Haghani.** Treatment with edaravone improves the structure and functional changes in the hippocampus after chronic cerebral hypoperfusion in rat. *Brain Res Bull* 2021 Sep;174:122-130.
- 3) **Somayeh Nazari , Masoud Haghani, Seyed Mostafa Shid Moosavi.** Bilateral renal denervation prevents the development of hypertension during diet-induced obesity in male rats. *Exp Physiol* 2021 Nov;106(11):2248-2261.
- 4) **Mahnaz Bayat, Kristi A Kohlmeier, Masoud Haghani, Afshin Borhani Haghghi, Azadeh Khalili, Gholamreza Bayat, Etrat Hooshmandi, Mohammad Shabani.** Co-treatment of vitamin D supplementation with enriched environment improves synaptic plasticity and spatial learning and memory in aged rats. *Psychopharmacology (Berl)*; 2021 Aug;238(8):2297-2312
- 5) **Maryam Naseh, Jafar Vatanparast, Ali Rafati, Mahnaz Bayat, Masoud Haghani.** The emerging role of FTY720 as a sphingosine 1-phosphate

analog for the treatment of ischemic stroke: The cellular and molecular mechanisms. *Brain Behav*; 2021 Jun;11(6):e02179

- 6) **Hedieh Matavos-Aramyan, Sara Keshtgar, Bahareh Ebrahimi, Masoud Haghani, Setareh Maleki.** Progesterone and anandamide diminish the inhibitory effect of zinc on mature human sperm. *Reprod Fertil Dev*; 2021 Oct;33(12):691-699
- 7) **Mahnaz Bayat, Shahrbanoo Zabihi, Narges Karbalaei, Masoud Haghani;** Time-dependent effects of platelet-rich plasma on the memory and hippocampal synaptic plasticity impairment in vascular dementia induced by chronic cerebral hypoperfusion. *Brain Research Bulletin*, Volume 164, November 2020, Pages 299-306
- 8) **Haghani M, Pouladvand V, Mortazavi S.M.J, Razavinasab M, Bayat M, Shabani M.** Exposure to electromagnetic field during gestation adversely affects the electrophysiological properties of purkinje cells in rat offspring. *Journal of Biomedical Physics and Engineering*. Volume 10, Issue 4, 2020, Pages 433-440
- 9) **Bayat, M, Zabihi, S, Karbalaei, N, Haghani M*.** Time-dependent effects of platelet-rich plasma on the memory and hippocampal synaptic plasticity impairment in vascular dementia induced by chronic cerebral hypoperfusion. *Brain Research Bulletin*. Volume 164, November 2020, Pages 299-306
- 10) **Firouzjaei MA, Haghani M*, Shid Moosavi SM.** Renal ischemia/reperfusion induced learning and memory deficit in the rat: Insights into underlying molecular and cellular mechanisms. *Brain Res*. 2019 Sep 15;1719:263-273
- 11) **Mohammadian F, Firouzjaei MA, Haghani M*, Shabani M, Shid Moosavi SM, Mohammadi F,** Inhibition of inflammation is not enough for recovery of cognitive impairment in hepatic encephalopathy: Effects of minocycline and ibuprofen. *Brain Res Bull*. 2019 Jul;149:96-105.
- 12) **Shabani M, Ebrahimipoor F, Firouzjaei MA, Kamali L, Shid Moosavi SM, Noorafshan A, Haghani M*,** Modulation of sphingosine-1-phosphate receptor by FTY720 contributes in improvement of hepatic encephalopathy induced by bile duct ligation. *Brain Res Bull*. 2019 Mar;146:253-269.
- 13) **Aghaei I, Hajali V, Haghani M, Vaziri Z, Moosazadeh M, Shabani M,** Peroxisome proliferator-activated receptor- γ activation attenuates

harmaline-induced cognitive impairments in rats. *J Clin Neurosci*. 2019 Jan;59:276-283

- 14) **Karimi N, Bayat M, Haghani M1,, Saadi HF, Ghazipour GR,** 2.45 GHz microwave radiation impairs learning, memory, and hippocampal synaptic plasticity in the rat. 2018 Oct 21:748233718798976.
- 15) **Bayat M, Haghani M*,** Acute bilateral common carotid arteries occlusion (2VO) alone could not be a proper method for induction of ischemia in rats. *Biomed Pharmacother*. 2017 Dec;96:1557-1558.
- 16) **Narges Karimi1, Masoud Haghani*, Ali Noorafshan, and Seyed Mostafa Shid Moosavi,** Structural and functional disorders of hippocampus following ischemia/reperfusion in lower limbs and kidneys. *Neuroscience*. 2017 Sep 1;358:238-248
- 17) **Shabani M, Haghani M, Tazangi PE, Bayat M, Shid Moosavi SM, Ranjbar H,** Netrin-1 improves the amyloid- β -mediated suppression of memory and synaptic plasticity. *Brain Res Bull*. 2017 May;131:107-116
- 18) **Masoud Haghani, Somayeh Keshavarz, Maryam Nazari, Ali Rafati,** Electrophysiology of cerebral ischemia and reperfusion: First evidence for the role of synapse in ischemic tolerance. *Synapse*. 2016 Sep; 70(9):351-60.
- 19) **Maryam Nazari, Somayeh Keshavarz, Ali Rafati, Mohammad Reza Namavar, Masoud Haghani,** Fingolimod (FTY720) improves hippocampal synaptic plasticity and memory deficit in rats following focal cerebral ischemia. *Brain Res Bull*. 2016 Jun;124:95-102
- 20) **Aghaei I, Hajali V, Dehpour A, Haghani M, Sheibani V, Shabani M.** Alterations in the intrinsic electrophysiological properties of Purkinje neurons in a rat model of hepatic encephalopathy: Relative preventing effect of PPAR γ agonist. *Brain Res Bull*. 2016 Mar;121:16-25. doi: 10.1016/j.brainresbull.2015.12.002. Epub 2015 Dec 17.
- 21) **Bayat M, Sharifi MD, Haghani M, Shabani M.** Enriched environment improves synaptic plasticity and cognitive deficiency in chronic cerebral hypoperfused rats. *Brain Res Bull*. 2015 Oct;119(Pt A):34-40. doi: 10.1016/j.brainresbull.2015.10.001. Epub 2015 Oct 22

- 22) **Haghani M, Shabani M, Tondar M.** The therapeutic potential of berberine against the altered intrinsic properties of the CA1 neurons induced by A β neurotoxicity. *Eur J Pharmacol.* 2015 Jul 5;758:82-8. doi: 10.1016/j.ejphar.2015.03.016. Epub 2015 Apr 8.
- 23) **Vaziri Z, Abbassian H, Sheibani V, Haghani M, Nazeri M, Aghaei I, Shabani M.** The therapeutic potential of Berberine chloride hydrate against harmaline-induced motor impairments in a rat model of tremor. *Neurosci Lett.* 2015 Mar 17;590:84-90. doi: 10.1016/j.neulet.2015.01.078. Epub 2015 Jan 30.
- 24) **Esmaeili Tazangi P, Moosavi SM, Shabani M, Haghani M.** Erythropoietin improves synaptic plasticity and memory deficits by decrease of the neurotransmitter release probability in the rat model of Alzheimer's disease. *Pharmacol Biochem Behav.* 2015 Mar;130:15-21. doi: 10.1016/j.pbb.2014.12.011. Epub 2014 Dec 29.
- 25) **Haghani M, Shabani M, Moazzami K.** Maternal mobile phone exposure adversely affects the electrophysiological properties of Purkinje neurons in rat offspring. *Neuroscience.* 2013 Oct 10;250:588-98. 2013.07.049. Epub 2013 Jul 29.
- 26) **Haghani M, Shabani M, Javan M, Motamedi F, Janahmadi M.** CB1 cannabinoid receptor activation rescues amyloid β -induced alterations in behaviour and intrinsic electrophysiological properties of rat hippocampal CA1 pyramidal neurones. *Cell Physiol Biochem.* 2012;29(3-4):391-406. Epub 2012 Apr 3.
- 27) **Haghani M, Janahmadi M, Shabani M.** Protective effect of cannabinoid CB1 receptor activation against altered intrinsic repetitive firing properties induced by A β neurotoxicity. *Neurosci Lett.* 2012 Jan 17;507(1):33-7. Epub 2011 Dec 7.
- 28) **Moosavi SMS, Haghani M** Cooperative mechanisms of acute antidiuretic response to bendroflumethiazide in rats with lithium-induced nephrogenic diabetes insipidus. *Can. J. Physiol. Pharmacol.* 88: 1191–1201 (2010)

- 29) **Shabani M, Hosseinmardi N, Haghani M, Shaibani V, Janahmadi M.** 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. *Neuroscience*. 2011 Jan 13;172:139-52. Epub 2010 Oct 20.
- 30) **Shabani M, Haghani M, Sheibani V, Janahmadi M,** Changes in motor and learning behaviors of rats prenatally exposed to WIN 55212-2, a cannabinoid receptor agonist. *Physiology and Pharmacology*, 13 (2), 120 – 129 Summer 2009
- 31) **Haghani M, Keshavarz S, Nazari M, Rafati A,** Electrophysiology of cerebral ischemia and reperfusion: First evidence for the role of synapse in ischemic tolerance. *Synapse*. 2016 Sep;70(9):351-60.

Abstracts

- 1) **Haghani M, Moosavi S.M.S. & Fallahzadeh M.H. (2005):** Mechanism of paradoxical antidiuretic effect of bendroflumethiazide in rat with Li-induced nephrogenic diabetes insipidus. *The 17th Iranian Congress of Physiology & Pharmacology. Abstract Book: 98*
- 2) **Moosavi S.M.S., Haghani M. & Fallahzadeh M.H. (2005):** Alterations of renal functions in rat with Li-induced nephrogenic diabetes insipidus. *The 17th Iranian Congress of Physiology & Pharmacology. Abstract Book: 97*
- 3) **Haghani M, Moosavi S.M.S. & Fallahzadeh M.H. (2006):** Role of renal nerves in acute antidiuretic effect of bendroflumethiazide in rat with lithium-induced nephrogenic diabetes insipidus. *The 10th Iranian Annual Congress of Nephrology, Dialysis and Transplantation, Abstract Book: 15*
- 4) **Haghani M. & Moosavi S.M.S. (2006):** Role of renal nerves in acute antidiuretic effect of bendroflumethiazide in rat with lithium-induced nephrogenic diabetes insipidus. *The 6th Congress of the Federation of Asian and Oceanian Physiological Societies, Seoul, Korea. Abstract Book: 300*
- 5) **Haghani M, Moosavi S.M.S. & Karimi Z. (2007):** Renal dysfunctions in conscious rat with lithium-induced nephrogenic diabetes insipidus. *The 18th Iranian Congress of Physiology & Pharmacology, Abstract Book: 14.*

- 6) **Haghani M, Janahmadi M. & Javan M. (2009):** Cannabinoids prevent the induction of apoptosis in a rat model of Alzheimer's disease. *19th Congress of Physiology & Pharmacology Shaheed Beheshti Tehran, Iran*
- 7) **Sheibani V, Shabani M, Haghani M. & Janahmadi M. (2009):** Effects of prenatal Win 55212-2 exposure on motor and learning behaviors of rat offspring. *19th Congress of Physiology & Pharmacology Shaheed Beheshti Tehran, Iran.*
- 8) **Janahmadi M, Goudarzi I, Kaffashian M, Shabani M. & Haghani M. (2011):** Homeostatic imbalance between intrinsic and extrinsic neuronal excitability leads to neurodegenerative disease. *National Symposium of Neuroscience, Gorgan, Iran.*
- 9) **Haghani M, Shabani M. & Janahmadi M. (2011):** Cannabinoids improve β -amyloid-induced learning and memory deficit in rats. *National Symposium of Neuroscience, Gorgan, Iran.*
- 10) **Shabani M, Janahmadi M. & Haghani M. (2011):** Plastic changes in the endogenous bursting properties of cerebellar Purkinje neurons of offspring maternally exposed to the CB1 cannabinoid agonist WIN 55212-2. *National Symposium of Neuroscience, Gorgan, Iran.*
- 11) **Ghotbeddin Z, Haghani M, MirNajafizadeh J, Semnianian S. & Janahmadi M. (2011):** Amygdala kindling causes robust alterations in the electrophysiological properties of hippocampal CA1 pyramidal neurons in brain slices. *National Symposium of Neuroscience, Gorgan, Iran.*
- 12) **Haghani M, Ghotbedin Z, Shabani M. & Janahmadi M. (2011):** CB1 cannabinoid receptors activation protects rat hippocampal CA1 pyramidal from aberrant alterations in intrinsic electrophysiological properties induced by amyloid β peptide. *8th IBRO world congress of neuroscience Florence, Italy.*
- 13) **Dariani SH, Haghani M, Shabani M. & Janahmadi M (2011):** Inhibition of glial cells ameliorates amyloid beta-induced changes in intrinsic neuronal excitability. *8th IBRO world congress of neuroscience Florence, Italy.*
- 14) **Ghotbeddin Z, Haghani M, MirNajafizadeh J, Semnianian S. & Janahmadi M. (2011):** Low frequency stimulations prevent Amygdala kindling- induced neuronal hyperexcitability in CA1 pyramidal neurons possibly through inhibition of I_h potassium channels. *20th Iranian congress of physiology and pharmacology*

15) Dariani SH, Haghani M, Shabani M. & Janahmadi M (2011): Glial inhibition restores neuronal hypoexcitability-induced by β -Amyloid in hippocampal pyramidal neurons of rat to the normal level. *20th Iranian congress of physiology and pharmacology.*

16) Haghani M, Javan M, Shabani M, Motamedi F. & Janahmadi M. (2011): Neuroprotective potential of CB1 cannabinoid receptor activation against amyloid β neurotoxicity in a rat model of Alzheimer's disease. *20th Iranian congress of physiology and pharmacology.*

17) Hossein Mardi N, Dariani Sh, Haghani M. & Janahmadi M. (2011): Effect of glial cell inhibition on epileptic activity of pyramidal CA1 hippocampal neuron in rat, induced by PTZ. *20th Iranian congress of physiology and pharmacology.*

18) Ghotbeddin Z, MirNajafizadeh J, Semnianian S, Haghani M & Janahmadi M. (2011): Low frequency stimulation prevent alterations in the electrophysiological properties of hippocampal CA1 pyramidal neurons induced by amygdala kindling. *7th Congress of FAOPS, Taiwan.*

19) Masoud Haghani, Parisa Esmaeili , Seyed Mostafa Shid Moosavi

Erythropoietin improves amyloid-beta-mediated suppression of synaptic plasticity.
3rd BCNC 2014, Tehran/ IRAN

Research Interests

- 1) Electrophysiological and biophysical properties of Ion channels
- 2) Neurobiology of diseases
- 3) Apoptosis
- 4) Neuronal plasticity