CURRICULUM VITAE

Name: **Abbas**

Family name: **Haghparast**

Title: **Professor**

Birthday: **06-11-1967**

Place of birth: **Karbala-Iraq**

Nationality: **Iranian**

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Educational background

Shahid Bahonar University Department of Biology Kerman-Iran	B.Sc. in Biology	1986 - 1990
Kerman University of Medical Sciences Department of Physiology Kerman-Iran	M.Sc. in Physiology	1990 - 1993
Tarbiat Modarres University, School of Medical Science Tehran-Iran	Ph.D. in Physiology	1995 - 1999
University of Saskatchewan, Institute of Physiology Saskatoon-Canada	Postdoctoral Fellow	1999 - 2000

Present position

Position: Professor, Unit leader
Research Unit for Neuromodulation and Behavior

Name and address of Institution: Neuroscience Research Center
Shahid Beheshti University of Medical Sciences
Evin St. | Shahid Chamran Express-way
P.O.Box 19615-1178 | Tehran-Iran

Academic promotion

Professor	2015 - Present
Associate Professor	2010 - 2015
Assistant Professor	1999 - 2010
Instructor (Lecturer)	1993 - 1999

Research experiences

Electrophysiological techniques:

Extracellular Single Unit Recording (SUR)

Local Field Potential Recording (LFP) in free moving animal

In vivo and In vitro Field Potential Recording (FPR)

Molecular/Cellular techniques:

Confocal laser scanning microscopy

Immunohistochemistry (IHC)

Western Blotting

Behavioral techniques:

Addictive behavioral tests in animals: Tolerance and Dependence tests;

Conditioning Place Preference (CPP) test

Pain models in animals: Tail-Flick test; Hot-Plate test; Formalin test

Stress models in animals: Forced Swim Stress; Restraint Stress

Decision-Making models in animals: Effort- and Delay-Based tests

Drug Microinjection technique (Brain Local application)

Statistics

Biological Data Analysis (GraphPad Prism®; Excellent)

Professional experiences

- Deputy of Executive secretary of the 4th Basic and Clinical Neuroscience Congress, Tehran, Iran, **23-25 December 2015**.

- Editorial Board Member of the *Journal of Cellular and Molecular Anesthesia* **(2015 - Present)**

- Director of Scientific Resources, Central Library and Archive Center, Shahid Beheshti University of Medical Sciences **(2015 - Present)**

- Editorial Board Member of the *Pajouhan Scientific Journal* **(2015 - Present)**

- Secretary of the Iran-Brazil Collaboration Desk in the Cognitive Sciences and Technologies Council (CSTC), Iran's Presidency Vice-Chancellor for Research **(2015 - Present)**

- Executive secretary of the 1st IBRO/APRC Iranian Associate School of Cognitive Neuroscience "Functional Human Brain Mapping", Tehran, Iran, **22-28 May 2015**.

- Scientific secretary of the 3rd Basic and Clinical Neuroscience Congress, Tehran, Iran, **29-31 October 2014**.

- Executive secretary of the 4th Tehran IBRO School of Neuroscience: Basic approaches in neurological diseases, Tehran, Iran, **17-28 October 2014**.

- Secretary of the Cognitive Neuroscience Committee of the Cognitive Sciences and Technologies Council (CSTC), Iran's Presidency Vice-Chancellor for Research **(2014 - Present)**

- Editorial Board Member of the *Itch & Pain* journal **(2014 - Present)**

- Board Member of Research Committee of the Substance Abuse and Dependence Research Center, University of Social Welfare and Rehabilitation Sciences **(2014 - Present)**

- Editorial Board Member of the *Anesthesiology and Pain Medicine* journal **(2014 - Present)**

- Member of the Steering Committee of the Neurobiology Research Center, Shahid Beheshti University of Medical Sciences **(2014 - Present)**

- Executive secretary of the 2nd Basic and Clinical Neuroscience Congress, Tehran, Iran, **18-20 December 2013**.

- Editorial Board Member of the *Journal of Substance Abuse and Alcoholism* **(2013 - Present)**

- Associate Member of the Neurobiology Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran **(2013 - Present)**

- Senior Editorial Board Member of the *American Journal of Neuroscience Research* **(2013 - Present)**

- Member of the Steering Committee of the Education, Human Resources and Promotion, Cognitive Sciences and Technologies Council (CSTC), Iran's Presidency Vice-Chancellor for Research **(2013 - Present)**

- Council Member of the Iranian Pain Society; IASP Chapter **(2013 - Present)**

- Secretary-General of the Iranian Neuroscience Society; INSS **(2013 - Present)**

- Editorial Board Member of the *Journal of Addiction Medical Practice* **(2013 - Present)**

- Member of the Steering Committee of the National Research Institute for Science Policy, Government Ministry of Science, Research and Technology; MSRT in Iran **(2013 - Present)**

- Research Vice-Chancellor of the Neuroscience Research Center, Shahid Beheshti University of Medical Sciences **(2011 - Present)**

- Behavioral Neuroscience Section Editor of the *Basic & Clinical Neuroscience Journal* **(2009 - Present)**

- Editorial Board Member of the *Basic & Clinical Neuroscience Journal* **(2009 - Present)**

- Board Member of Research Committee of the Neuroscience Research Center, Shahid Beheshti University of Medical Sciences **(2005 - Present)**

- Member of the Steering Committee of the Neuroscience Research Center, Shahid Beheshti University of Medical Sciences **(2005 - Present)**

- Editorial Board Member of the *Federation of the Asian-Oceanian Physiological Societies (FAOPS) Newsletter* **(2005 - Present)**

Academic - Executive experiences

- Scientific Committee member of the 4th Basic and Clinical Neuroscience Congress, Tehran, Iran, 23-25 December 2015.

- Faculty member and organizer of the 3rd Workshop on Introduction to Biostatistics and Data Analysis in Experimental Research, Tehran, Iran, 14 August 2014.

- Faculty member and organizer of the 9th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 7 August 2014.

- Faculty member and organizer of the 8th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 1 May 2014.

- Faculty member in Pain Fellowship Program, Tehran, Iran, 6-20 March 2014.

- Faculty member and organizer of the 2nd Workshop on Introduction to Biostatistics and Data Analysis in Experimental Research, Tehran, Iran, 23 January 2014.

- Faculty member and organizer of the 7th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 9 January 2014.

- Faculty member and organizer of the 6th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 20 December 2013.

- Invited speaker in Pavilion entitled “Electrophysiology”. 2nd Basic and Clinical Neuroscience Congress, Tehran-Iran, 18-20 December 2013.

- Scientific Committee member of the 2nd Basic and Clinical Neuroscience Congress, Tehran, Iran, 18-20 December 2013.

- Faculty member and organizer of the 5th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 5 December 2013.

- Faculty member and organizer of the 1st Workshop on Introduction to Biostatistics

and Data Analysis in Experimental Research, Tehran, Iran, 28 November 2013.

- Faculty member and organizer of the 3rd Tehran IBRO School of Neuroscience: Molecular, Electrophysiological & Behavioral Approaches (*Section: Extracellular single unit recording*) Tehran, Iran, 26 October - 6 November 2013.

- Faculty member and organizer of the 4th Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 24 October 2013.

- Scientific Committee member of the 7th National Congress on Addiction Science, Tehran, Iran, 11-13 September 2013.

- Faculty member and organizer of the 3rd Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tabriz, Iran, 25 August 2013.

- Scientific Committee member of the 21st Iranian Congress of Physiology and Pharmacology, Tabriz, Iran, 23-27 August 2013.

- Faculty member in Pain Fellowship Program, Tehran, Iran, 5-19 March 2013.

- Scientific Committee member of the 1st Basic and Clinical Neuroscience Congress, Tehran, Iran, 7-9 November 2012.

- Scientific Committee member of the 6th National Congress of Addiction Biology, Tehran, Iran, 20-22 June 2012.

- Faculty member and organizer of the 2nd Tehran IBRO School of Neuroscience: Molecular, Electrophysiological & Behavioral Approaches (*Section: Extracellular single unit recording*) Tehran, Iran, 12-23 May 2012.

- Faculty member of the Pain Fellowship Program, Tehran, Iran, 5-19 March 2012.

- Scientific Committee member of the 20th Iranian Congress of Physiology and Pharmacology, Hamadan, Iran, 10-14 October 2011.

- Scientific Committee member of the 5th National Congress of Addiction Biology, Tehran, Iran, 22-24 June 2011.

- Faculty member of the 5th Workshop on Electrophysiological Recording Techniques, (*Section: Extracellular single unit recording*) Tehran, Iran, 28-30 May 2011.

- Faculty member of the 2nd Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 19-20 May 2011.

- Faculty member of the 1st Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 5-6 March 2011.

- Faculty member of the 2nd Workshop on Behavioral Neuroscience (*Section: Fear Conditioning and Self-administration*), Tehran, Iran, 16-17 January 2011.

- Faculty member of the 4th Workshop on Electrophysiological Recording Techniques, (*Section: Extracellular single unit recording*) Tehran, Iran, 2-4 October 2010.

- Faculty member of the Pain Fellowship Program, Tehran, Iran, 6-20 March 2010.

- Faculty member of the 3rd Workshop on Electrophysiological Recording Techniques, (*Section: Extracellular single unit recording technique*) Tehran, Iran, 20-22 February 2010.

- Scientific Committee member of the 19th Iranian Congress of Physiology and Pharmacology, Tehran, Iran, 3-6 November 2009

- Faculty member of the 2nd Electrophysiological Techniques Workshop (*Section: Extracellular single unit recording technique*), Tehran, Iran, 9-11 November 1998.

- Faculty member of the 1st Electrophysiological Techniques Workshop (*Section: Extracellular single unit recording technique*), Tehran, Iran, 18-20 May 1998.

Scholarships and Awards

- Recipient of Top Researcher Award **(2013)** in Basic Medical Sciences, 14th Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Invited alumnus lecturer **(2011)** at the alumni special symposium, 8th IBRO World

Congress of Neuroscience, Florence, Italy

- Recipient of Top Researcher Award **(2010)** in Basic Medical Sciences, 11th Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Outstanding book translator **(2009)**, 10th Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Recipient of Top Researcher Award **(2007)** in Basic Medical Sciences, 8th Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Recipient of Young investigator award **(2001)** in 15th International Congress of Physiology and Pharmacology, Shiraz, Iran

- Recipient of 2nd student prize Award **(1999)** in 5th International Razi Medical Sciences Research Festival, Tehran, Iran

- Recipient of Scholarship for six months **(1999)** by the Iranian Ministry of Health and Medical Education to continue education abroad towards the PhD completion

List of Publications

International ISI Peer-reviewed Periodicals

[1]. Siahposht-Khachaki A, Fatahi Z, Yans A, Khodagholi F, **Haghparast A***. Involvement of AMPA/kainate glutamate receptor in the extinction and reinstatement of morphine-induced conditioned place preference: a behavioral and molecular study. Accepted in *Cellular and Molecular Neurobiology 2016*.

[2]. Zibaii MI*, Latifi H, Asadollahi A, Bayat AH, **Haghparast A**. Label free fiber optic Apta-Biosensor for dopamine detection. Accepted in *Journal of Lightwave Technology 2016*.

[3]. Faramarzi G, Zendehdel M, **Haghparast A***. D1- and D2-like dopamine receptors within the nucleus accumbens contribute to stress-induced analgesia in formalin-related pain behaviors in rats. Accepted in *European Journal of Pain 2016*.

[4]. Yazdi F, Jahangirvand M, Ezzatpanah S, **Haghparast A***. Role of orexin-2 receptors in the nucleus accumbens in antinociception induced by carbachol stimulation of the lateral hypothalamus in formalin test. Accepted in *Behavioural*

Pharmacology 2016.

[5]. Heysieattalab S, Naghdi N, Hosseinmardi N*, Zarrindast MR, **Haghparast A**, Khoshbouei H. Methamphetamine-induced rnhancement of hippocampal LTP is modulated by NMDA and GABA receptors in the Shell-Accumbens. *Synapse 2016; doi:10.1002/syn.21905*.

[6]. Sadeghi B, Ezzatpanah S, **Haghparast A***. Effects of dorsal hippocampal orexin-2 receptor antagonism on the acquisition, expression and extinction of morphine-induced place preference in rats. *Psychopharmacology 2016; doi:10.1007/s00213-016-4280-3*.

[7]. Ezzatpanah S, Babapour V, **Haghparast A***. Differential contribution of orexin receptors within the ventral tegmental area to modulation of persistent inflammatory pain. *European Journal of Pain 2016; doi:10.1002 /ejp.833*.

[8]. Molaei M, Fatahi Z, Zaringhalam J, **Haghparast A***. CB1 cannabinoid agonist (WIN55,212-2) within the basolateral amygdala induced sensitization to morphine and increased the level of μ-opioid receptor and c-fos in the nucleus accumbens. *Journal of Molecular Neuroscience 2016 (First online); doi:10.1007/s12031-016-0716-9*.

[9]. Parsania S, Moradi M, Fatahi Z, **Haghparast A***. Involvement of orexin-1 and orexin-2 receptors within the dentate gyrus of the hippocampus in the acquisition, expression and extinction of lateral hypothalamic-induced conditioned place preference in the rats. *Brain Research 2016; 1639:149-60*.

[10]. Arezoomandan R, **Haghparast A***. Administration of the glial cell modulator, minocycline, in the nucleus accumbens attenuated the maintenance and reinstatement of morphine-seeking behavior. *Canadian Journal of Physiology and Pharmacology 2016; 94(3):257-64*.

[11]. Heysieattalab S, Naghdi N*, Zarrindast MR, **Haghparast A**, Ejtemaei Mehr M, Khoshbouei H. The effects of GABAA and NMDA receptors in the shell-accumbens on spatial memory of METH treated rats. *Pharmacology, Biochemistry and Behavior 2016; 142:23-35*.

[12]. Sadeghzadeh F, Namvar P, Naghavi FS, **Haghparast A***. Differential effects of intra-accumbal orexin-1 and -2 receptor antagonists on the expression and extinction of morphine-induced conditioned place preference in rats. *Pharmacology, Biochemistry and Behavior 2016; 142:8-14*.

[13]. Arezoomandan R, Khodagholi F, **Haghparast A***. Administration of the glial condition medium in the nucleus accumbens prolong maintenance and intensify reinstatement of morphine- seeking behavior. *Neurochemical Research 2015 (First online); doi:10.1007/s11064-015-1762-3*.

[14]. Ebrahimian F, Naghavi FS, Yazdi F, Sadeghzadeh F, Taslimi Z, **Haghparast A***. Differential roles of orexin receptors within the dentate gyrus in stress- and drug priming-induced reinstatement of conditioned place preference in rats. *Behavioral Neuroscience 2015; 130(1):91-102*.

[15]. Yazdi F, Jahangirvand M, Pirasteh AM, Moradi M, **Haghparast A***. Functional interaction between OX2 and CB1 receptors in the ventral tegmental area and the nucleus accumbens in response to place preference induced by chemical stimulation of the lateral hypothalamus. *Pharmacology, Biochemistry and Behavior 2015; 139:39-46*.

[16]. Sarihi A*, Heshmatian B, Pahlevani P, Komaki A, **Haghparast A**. Reversible inactivation of dorsal raphe nucleus increased morphine-induced antinociception in tolerated but not non-tolerated rats. *Neurophysiology 2015; 47(3):205-11*.

[17]. Sarkaki AR, Farbood Y, Gharib-Naseri MK, Badavi M, Mansouri MT, **Haghparast A**, Mirshekari MA*. Gallic acid improved behavior, brain electrophysiology and inflammation in a rat model of traumatic brain injury. *Canadian Journal of Physiology and Pharmacology 2015; 93(8):687-94*.

[18]. Moradi M, Yazdanian MR, **Haghparast A***. Role of dopamine D2-like receptors within the ventral tegmental area and nucleus accumbens in antinociception induced by lateral hypothalamus stimulation. *Behavioural Brain Research 2015; 292:508-14*.

[19]. Nazemi S*, Manaheji H, Noorbakhsh MS, Zaringhalam J, Sadeghi M, Mohammadzadeh M, **Haghparast A**. Inhibition of microglial activity alters spinal wide dynamic range neuron discharge and reduces microglial Toll-like receptor 4

expression in neuropathic rats. *Clinical and Experimental Pharmacology and Physiology 2015; 47(7):772-9.*

[20]. Baharlouei N, Sarihi A*, Komaki A, Shahidi S, **Haghparast A**. Blockage of acquisition and expression of morphine-induced conditioned preference in rats due to activation of glutamate receptors type II/III in nucleus accumbens. *Pharmacology, Biochemistry and Behavior 2015; 135:192-8.*

[21]. Khaleghzadeh-Ahangar H, **Haghparast A***. Intra-accumbal CB1 receptor blockade reduced extinction and reinstatement of morphine. *Physiology & Behavior 2015; 149:212-9.*

[22]. Moradi M, Fatahi Z, **Haghparast A***. Blockade of D1-like dopamine receptors within the ventral tegmental area and nucleus accumbens attenuates antinociceptive responses induced by chemical stimulation of the lateral hypothalamus. *Neuroscience Letters 2015; 599:61-6.*

[23]. Sadeghzadeh F, Babapour V, **Haghparast A***. Role of dopamine D1-like receptor within the nucleus accumbens in acute food deprivation- and drug priming-induced reinstatement of morphine seeking in rats. *Behavioural Brain Research 2015; 287C:172-81*.

[24]. Fatahi Z, Assar N, Mahmoudi D, Pahlevani P, Moradi M, **Haghparast** A*. Functional interaction between the orexin-1 and CB1 receptors within the nucleus accumbens in the conditioned place preference induced by the lateral hypothalamus stimulation. *Pharmacology, Biochemistry and Behavior 2015; 132: 42-8*.

[25]. Riahi E, Arezoomandan R, Fatahi Z, **Haghparast A***. The electrical activity of hippocampal pyramidal neuron is subjected to descending control by the brain orexin/hypocretin system. *Neurobiology of Learning and Memory 2015; 119:93-101*.

[26]. Ezzatpanah S, Babapour V, Sadeghi B, **Haghparast A***. Chemical stimulation of the lateral hypothalamus by carbachol attenuated the formalin-induced pain behaviors in rats. *Pharmacology, Biochemistry and Behavior 2015; 129:105-10.*

[27]. Zamani N, Hassanian-Moghaddam H*, Bayat AH, **Haghparast A**, Shadnia S,

Rahimi M, Demaneh BH. Assar N. Reversal of opioid overdose syndrome in morphine-dependent rats using buprenorphine. *Toxicology Letters 2015; 232:590-4*.

[28]. Rashidy-Pour A, Moradi M, Fatahi Z, Haghparast A, **Haghparast A***. Role of intra-hippocampal orexin 1 and orexin 2 receptors in conditioned place preference induced by chemical stimulation of the lateral hypothalamus. *Behavioural Brain Research 2015; 279:106-11*.

[29]. Bayat AH, **Haghparast A***. Effect of insulin deficiency on the rewarding properties of methamphetamine in streptozotocin-induced diabetic rats. *Pharmacology, Biochemistry and Behavior 2015; 128:8-13*.

[30]. Khani A*, Kermani M, Hesam S, **Haghparast A**, Argandoña EG, Rainer G. Activation of cannabinoid system in anterior cingulate cortex and orbitofrontal cortex modulates cost-benefit decision making. *Psychopharmacology 2015; 232:2097-2112*.

[31]. Pahlevani P, Fatahi Z, Moradi M, **Haghparast A***. Morphine-induced conditioned place preference and the alterations of p-ERK, p-CREB and c-fos levels in hypothalamus and hippocampus: The effects of physical stress. *Cellular and Molecular Biology 2014; 60:48-55*.

[32]. Roohi N, Sarihi A*, Shahidi S, Zarei M, **Haghparast A****. Microinjection of the mGluR5 antagonist MTEP into the nucleus accumbens attenuates the acquisition but not expression of morphine-induced conditioned place preference in rats. *Pharmacology, Biochemistry and Behavior 2014; 126:109-115*.

[33]. Razavi Y, Karimi S, Bani-Ardalan M, **Haghparast A***. Chemical stimulation of the lateral hypothalamus potentiated the sensitization to morphine in rats: involvement of orexin-1 receptor in the ventral tegmental area. *Experimental and Clinical Sciences (EXCLI) Journal 2013; 13:1120-30*.

[34]. Yazdi-Ravandi S, Razavi Y, Haghparast A, Goudarzvand M, **Haghparast A***. Orexin A induced antinociception in the ventral tegmental area involves D1 and D2 receptors in the nucleus accumbens. *Pharmacology, Biochemistry and Behavior 2014; 126:1-6*.

[35]. Fatahi Z, Alamdary SZ, Khodagholi F, Shahamati SZ, Razavi Y, **Haghparast A***. Effect of physical stress on the alteration of mesolimbic system apoptotic factors in conditioned place preference paradigm. *Pharmacology, Biochemistry and Behavior 2014; 124:231-7*.

[36]. Reisi Z, Haghparast A, Pahlevani P, Shamsizadeh A, **Haghparast A***. Interaction between the dopaminergic and opioidergic systems in dorsal hippocampus in modulation of formalin-induced orofacial pain in rats. *Pharmacology, Biochemistry and Behavior 2014; 124C:220-5*.

[37]. Zarepour L, Fatahi Z, Sarihi A**, **Haghparast A***. Blockade of orexin-1 receptors in the ventral tegmental area could attenuate the lateral hypothalamic stimulation-induced potentiation of rewarding properties of morphine. *Neuropeptides 2014; 48(3):179-85*.

[38]. **Haghparast A***, Shamsizadeh A, Samandari R, Omranifard A, Vaziri A, Razavi Y. Cannabinoid receptors in the basolateral amygdala are involved in the potentiation of morphine rewarding properties in the acquisition, but not expression of conditioned place preference in rats. *Brain Research 2014; 1565:28-36*.

[39]. Attarzadeh-Yazdi G, Arezoomandan R, **Haghparast A***. Minocycline, an antibiotic with inhibitory effect on microglial activation, attenuates the maintenance and reinstatement of methamphetamine-seeking behavior in rat. *Progress in Neuro-Psychopharmacology and Biological Psychiatry 2014; 53C:142-8*.

[40]. Karimi S, Attarzadeh-Yazdi G, Yazdi-Ravandi S, Hesam S, Azizi P, Razavi Y, **Haghparast A***. Forced swim stress but not exogenous corticosterone could induce the reinstatement of extinguished morphine conditioned place preference in rats: Involvement of glucocorticoid receptors in the basolateral amygdala. *Bahvioural Brain Research 2014; 264C:43-50*.

[41]. Reisi Z, Bani-Ardalan M, Zarepour L, **Haghparast A***. Involvement of D1/D2 dopamine receptors within the nucleus accumbens and ventral tegmental area in the development of sensitization to antinociceptive effect of morphine. *Pharmacology, Biochemistry and Behavior 2014; 118C:16-21*.

[42]. Sadeghi M, Manaheji H*, Zarringhalam J, **Haghparast A**, Nazemi S, Bahari Z. The Changes of GABA transporters (GAT-1 and GAT-3) and GABAA Receptor α1 subunit Expression in the Spinal Cord after Peripheral Nerve injury: Effect of GABAA Receptor Stimulation and Glial Inhibition. *Advances in Bioresearch 2013; 4(4):54-64.*

[43]. **Haghparast A***, Fatahi Z, Alamdary SZ, Khodagholi F. Changes in apoptotic factors in hypothalamus and hippocampus after acute and subchronic stress induction during conditioned place preference paradigm. *Experimental and Clinical Sciences (EXCLI) Journal 2013; 12:1001-16.*

[44]. **Haghparast A***, Fatahi Z, Alamdary SZ, Reisi Z, Khodagholi F. Changes in the levels of p-ERK, p-CREB and c-fos in rat mesocorticolimbic dopaminergic system after morphine-induced conditioned place preference: the role of acute and subchronic stress. *Cellular and Molecular Neurobiology 2013; 34(2):277-88.*

[45]. Razavi Y, Alamdary SZ, Katebi SN, Khodagholi F, **Haghparast A***. Morphine-induced apoptosis in the ventral tegmental area and hippocampus after the development but not extinction of reward-related behaviors in rats. *Cellular and Molecular Neurobiology 2013; 34(2):235-45*.

[46]. Shamsizadeh A, Pahlevani P, Haghparast A, Moslehi M, Zarepour L, **Haghparast A***. Involvement of dopamine receptors within the dorsal hippocampus in suppression of the formalin-induced orofacial pain. *Pharmacology, Biochemistry and Behavior 2013; 114-115C:32-42*.

[47]. Katebi SN, Razavi Y, Alamdary SZ, Khodagholi F, **Haghparast A***. Morphine could increase apoptotic factors in the nucleus accumbens and prefrontal cortex of rat brain's reward circuitry. *Brain Research 2013; 1540:1-8.*

[48]. **Haghparast A***, Omranifard A, Arezoomandan R, Ghalandari-Shamami M, Taslimi Z, Vafaei AA, Rashidy-Pour A**. Involvement of dopaminergic receptors of the rat nucleus accumbens in decreasing the conditioned place preference induced by lateral hypothalamus stimulation. *Neuroscience Letters 2013; 556:10-4.*

[49]. Azhdari-Zarmehri H, Reisi Z, Vaziri A, Haghparast A, Shaigani P, **Haghparast A***. Involvement of orexin-2 receptors in the ventral tegmental area and nucleus

accumbens in the antinociception induced by the lateral hypothalamus stimulation in rats. *Peptides 2013; 47:94-8*.

[50]. Riahi E, Khodagholi F, **Haghparast A***. Role of dorsal hippocampal orexin 1 receptors in associating morphine reward with contextual stimuli. *Behavioural Pharmacology 2013; 24:237-48*.

[51]. Attarzadeh-Yazdi G, Karimi S, Azizi P, Yazdi-Ravandi S, Hesam S, **Haghparast A***. Inhibitory effects of forced swim stress and corticosterone on the acquisition but not expression of morphine-induced conditioned place preference: involvement of glucocorticoid receptor in the basolateral amygdala. *Behavioural Brain Research 2103; 252:339-46.*

[52]. Samandari R, Chizari A, Hassanpour R, Mousavi Z, **Haghparast A***. Streptozotocin-induced diabetes affects the development and maintenance of morphine reward in rats. *Neuroscience Letters 2013; 543:90-4*.

[53]. Zarepour L, Komaki A, Shahidi S, Sarihi A, **Haghparast A***. Potentiation of rewarding properties of morphine by concurrent chemical stimulation of lateral hypothalamus in rats. *Pharmacology, Biochemistry and Behavior 2013; 107:36-41*.

[54]. **Haghparast A***, Esmaeili MH**, Taslimi Z, Kermani M, Yazdi-Ravandi S, Alizadeh AM. Intrahippocampal administration of D2 but not D1 dopamine receptor antagonist suppresses the expression of conditioned place preference induced by morphine in the ventral tegmental area. *Neuroscience Letters 2013; 541:138-43*.

[55]. Rashidy-Pour A, Pahlevani P, Vaziri A, Shaigani P, Zarepour L, Vafaei AA, **Haghparast A***. Involvement of CB1 receptors in the ventral tegmental area in the potentiation of morphine rewarding properties in acquisition but not expression in the conditioned place preference model. *Behavioural Brain Research 2013; 247:259-67*.

[56]. Karimi S, Azizi P, Shamsizadeh A, **Haghparast A***. Role of intra-accumbal cannabinoid CB1 receptors in the potentiation, acquisition and expression of morphine-induced conditioned place preference. *Behavioural Brain Research 2013; 247:125-31*.

[57]. Sadeghi S, Reisi Z, Azhdari-Zarmehri H**, **Haghparast A***. Involvement of orexin-1 receptors in the ventral tegmental area and the nucleus accumbens in antinociception induced by lateral hypothalamus stimulation in rats. *Pharmacology, Biochemistry and Behavior 2013; 105:193-8*.

[58]. Heidari-Oranjaghi N, Azhdari-Zarmehri H*, Erami E, **Haghparast A**. Antagonism of orexin-1 receptors attenuated swim- and restraint stress-induced antinociceptive behaviors in formalin test. *Pharmacology, Biochemistry and Behavior 2012; 103(2):299-307*.

[59]. Erami E, Azhdari Zarmehri H*, Rahmani A, Ghasemi E, Semnanian S, **Haghparast A**. The Blockade of orexin receptor 1 attenuates the development of morphine tolerance and physical dependence in rats. *Pharmacology, Biochemistry and Behavior 2012; 103(2):212-9*.

[60]. Taslimi Z, Arezoomandan R, Omranifard A, Ghalandari-Shamami M, Riahi E, Vafei AA, Rashidy-Pour A**, **Haghparast A***. Orexin A in the ventral tegmental area induces conditioned place preference in a dose-dependent manner: involvement of D1/D2 receptors in the nucleus accumbens. *Peptides 2012; 37(2):225-32*.

[61]. Nazemi S, Manaheji H*, Zarringhalam J, Sadeghi M, **Haghparast A**. Post-injury repeated administrations of minocycline improve the antinociceptive effect of morphine in chronic constriction injury model of neuropathic pain in rat. *Pharmacology, Biochemistry and Behavior 2012; 102(4):520-5*.

[62]. **Haghparast A***, Ghalandari-Shamami M, Hassanpour-Ezatti M. Blockade of D1/D2 dopamine receptors within the nucleus accumbens attenuated the antinociceptive effect of cannabinoid receptor agonist in the basolateral amygdala. *Brain Research 2012; 1471:23-32*.

[63]. Ashabi G, Ramin M, Azizi P, Taslimi Z, Alamdary SZ, **Haghparast A**, Ansari N, Motamedi F, Khodagholi F*. ERK and p38 inhibitors attenuate memory deficits and increase CREB phosphorylation and PGC-1α levels in Aβ-injected rats. *Behavioural Brain Research 2012; 232(1):165-73*.

[64]. Esmaeili MH, Kermani M, Parvishan A, **Haghparast A***. Role of D1/D2 dopamine receptors in the CA1 region of the rat hippocampus in the rewarding

effects of morphine administered into the ventral tegmental area. *Behavioural Brain Research 2012; 231(1):111-5*.

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morphine on activity of neurons in the nucleus cuneiformis of rat. *Journal of Zahedan University of Medical Sciences 2009; 10(4):253-63*.

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[1]. Effects of CB1 receptor antagonist within the nucleus accumbens on the expression of morphine-induced conditioned place preference in morphine-sensitized rats. Azizi A*, Moaddab M, Hassanpour-Ezatti M, **Haghparast A**. Neuroscience Research 65 (1), Suppl., Neuro2009, Nagoya, Japan, Sep. 16-18, 2009, Page S255-S256

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[4]. Effects of fruit essential oil of Quminum cyminum on development of morphine

tolerance and dependence in mice. Alizadeh AM*, Khatibi A, Shams J, **Haghparast A**. Neuroscience Research 61 (1), Suppl., Neuro2008, Tokyo, Japan, July 9-11, 2008, Page S281

[5]. Inhibition of analgesic response of morphine infusion into the nucleus cuneifprmis in absence of nucleus raphe magnus and ventrolateral periaqueductal gray in rat. Ordikhani-Seyedlar M*, Ziaei M, Khani A, **Haghparast A**. Neuroscience Research 61 (1), Suppl., Neuro2008, Tokyo, Japan, July 9-11, 2008, Page 281

[6]. Interaction between nicotine and morphine: involvement of central nicotinic receptors. Jamal Shams*, Alizadeh AM, Khani A, **Haghparast A**. Neuroscience Research 61 (1), Suppl., Neuro2008, Tokyo, Japan, July 9-11, 2008, Page S272

[7]. Chronic administration of nicotine retards the development of morphine dependency and tolerance in mice. **Haghparast A***, Naderi N, Khani A, Alizadeh AM, Motamedi F. Neuroscience Research 58 (1), Suppl., Neuro2007, Yokohama, Japan, Sep. 10-12, 2007, Page S65

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[11]. Effects of gonadectomy on antinociception properties of morphine in male and female rats. Meimandi MS*, **Haghparast A**, Sepehri GR. Experimental Neurobiology 11 (2) Suppl., 3rd FAONS Congress, Seoul, Korea, Sep. 28-Oct. 01, 2002

[12]. Anticonvulsant effect of sour orange flowers extract in experimental pentylenetetrazol induced seizures in Wistar rat. Mahmoodi M*, **Haghparast A**, Heidari MA, Zoohor AR, Asadi M. Experimental Neurobiology 11 (2) Suppl., 3rd FAONS Congress, Seoul, Korea, Sep. 28-Oct. 01, 2002

[13]. Evidences for actions of gabapentin on naloxone-precipitated withdrawal signs in morphine-dependent rat. Mobasher M*, Hamzei-Moghadam A, **Haghparast A**, Kalantripour TP. Experimental Neurobiology 11 (2) Suppl., 3rd FAONS Congress, Seoul, Korea, Sep. 28-Oct. 01, 2002

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[1]. **Haghparast A**, Azizi H, Riahi E, Azizi P, Ranjbar-Slamloo Y. Chapter 10: Single unit recording. In: Motamedi F, Semnanian S, Mirnajafi-Zadeh J, editors. *Techniques in neuroscience research*, Tarbiat Modares University press: Tehran, Iran; 2013, p. 67-87.

[2]. **Haghparast A**, Arezoomandan R, Taslimi Z. Chapter 9: Conditioned place preference apparatus and paradigm. In: Motamedi F, Semnanian S, Mirnajafi-Zadeh J, editors. *Techniques in neuroscience research*, Tarbiat Modares University press: Tehran-Iran; 2013, p. 59-65.

Translated Book

[3]. Ross & Wilson Anatomy and Physiology in Health and Illness. 10th Ed., Anne

Waugh and Alison Grant. Translated by **Abbas Haghparast**, Jamenegar & Salemi Publishing Co., Tehran, Iran; 2006.

[4]. Guyton & Hall Physiology Review. John Edwad Hall. Translated by **Abbas Haghparast**, Jamenegar & Salemi Publishing Co., Tehran, Iran; 2006.

[5]. First Aid and Cardiopulmonary resuscitation. 4th Ed., Alton Thygerson and Benjamin Gulli. Translated by **Abbas Haghparast** and Reza Mirzaee, Jamenegar & Salemi Publishing Co., Tehran, Iran; 2005.

Oral and Poster Presentations (Selected Abstracts)

436 abstracts have been presented in the National and International conferences, and the **selected abstracts** are as below:

- The effect of restraint stress on morphine sensitization: involvement of D1-like dopamine receptors within the nucleus accumbens (Oral presentation). Elham Charmchi, Golnaz Faramarzi, Morteza Zendehdel, **Abbas Haghparast***. 4th Basic and Clinical Neuroscience Congress, Tehran-Iran, 23-25 December 2015.

- Orexin-2 receptors in hippocampal CA1 area are involved in expression and extinction of morphine place preference in rats (Oral presentation). Bahman Sadeghi, Somayeh Ezzatpanah, **Abbas Haghparast***. 4th Basic and Clinical Neuroscience Congress, Tehran-Iran, 23-25 December 2015.

- Interaction between OX2 and CB1 receptors in the nucleus accumbens in response to place preference induced by chemical stimulation of the lateral hypothalamus (Poster presentation). Marzieh Moradi, Amir Haghparast, **Abbas Haghparast***. 33rd Annual Conference of Indian Academy of Neurosciences, Chandigarh-India, 31 October - 2 November, 2015.

- Potentiation of rewarding properties of morphine by concurrent chemical stimulation of lateral hypothalamus in rats. Pharmacology Biochemistry and Behavior (Poster presentation). Leila Zarepour, Alireza Komaki, Siamak Shahidi, Abdolrahman Sarihi, **Abbas Haghparast***. 33rd Annual Conference of Indian Academy of Neurosciences, Chandigarh-India, 31 October - 2 November, 2015.

- Direct evidences for the involvement of orexin-1 receptor in the mesolimbic reward-related behaviors in conditioned place preference paradigm (Poster

Presentation). **Haghparast A***. Fatahi Z. Taslimi Z. Moradi M. 45th Annual Metting of Society for Neuroscience (SfN), Chicago-USA, 17-21 October 2015.

- Brain Orexinergic System, Cognition and Addictive Behaviors (Oral Presentation). **Abbas Haghparast***. The 6th FAONS Congress and 11th Biennial Conference of CNS, WuZhen-China, 20-23 September 2015.

- TCS OX2 29, an orexin-2 receptor antagonist, attenuates the acquisition and expression and facilitates the extinction of morphine-related behavior in rats (Oral presentation). Bahman Sadeghi, Somayeh Ezzatpanah, **Abbas Haghparast***. 9th Annual Addiction Science Congress, Tehran-Iran, 9-11 September 2015.

- Functional interaction between Brain Orexinergic and Mesolimbic Systems in Reward-related Behaviors (Oral presentation). **Abbas Haghparast***, Zahra Taslimi, Leila Zarepour, Zahra Reisi. The 1st International and 22nd Iranian Congress of Physiology and Pharmacology, Kashan-Iran, 7-11 September 2015.

- Morphine reward and neural activity of subcortial areas of the brain (Oral presentation). Zahra Fatahi, **Abbas Haghparast***. The 1st International and 22nd Iranian Congress of Physiology and Pharmacology, Kashan-Iran, 7-11 September 2015.

- Activation of cannabinoid system in nucleus accumbens affects cost-benefit decision making (Poster presentation). Zahra Fatahi, **Abbas Haghparast***, Bahman Sadeghi, Abbas Khani, Marzieh Moradi. 28th ECNP Congress, Amsterdam-Netherlands, 29 August - 1 September 2015.

- Activation of the glial cells in the nucleus accumbens increases the maintenance and reinstatement of methamphetamine seeking in conditioned place preference paradigm (Poster presentation). **Abbas Haghparast***, Ghassem Attarzadeh-Yazdi Marzieh Moradi, Reza Arezoomandan. 9th IBRO World Congress of Neuroscience, Rio de Janeiro-Brazil, 7-11 July 2015.

- Effects of acute and subchronic stress on the change in ERK/CREB pathway activation in rat hypothalamus and hippocampus during morphine-induced conditioned place preference procedure (Poster presentation). Zahra Fatahi, **Abbas Haghparast***, Fariba Khodagholi. 32nd Annual Conference of Indian Academy of Neuroscience, Bengaluru-India, 1-3 November 2014.

- Effect of different stressors on electrical activity of neurons in subcortical structures in the brain (Oral presentation). Zahra Fatahi, **Abbas Haghparast***. 3rd Basic and Clinical Neuroscience Congress, Tehran-Iran, 29-31 October 2014.

- Morphine-induced conditioned place preference and the alterations of p-ERK, p-CREB and c-fos levels in amygdala: The effects of physical stress (Oral presentation). Bahman Sadeghi, Zahra Fatahi, **Abbas Haghparast***. 3rd Basic and Clinical Neuroscience Congress, Tehran-Iran, 29-31 October 2014.

- Role of D2-like dopamine receptors within the nucleus accumbens in antinociception induced by forced swim stress in formalin test as an animal model of persistent inflammatory pain (Oral Presentation). Golnaz Faramarzi, Morteza Zendehdel, Elham Charmchi, **Abbas Haghparast***. 3rd Basic and Clinical Neuroscience congress, Tehran-Iran, October 29-31, 2014.

- Effect of glia cells modulator, minocycline, in the nucleus accumbens on the maintenance and reinstatement of morphine-induced conditioned place preference in rat (Oral presentation). Reza Arezoomandan, **Abbas Haghparast***. 3rd Basic and Clinical Neuroscience Congress, Tehran-Iran, October 29-31, 2014.

- Administration of orexin A into the ventral tegmental area (Poster presentation). Marzieh Moradi, Amir Haghparast, Saeid Yazdi-Ravandi, **Abbas Haghparast***. The 15th World Congress on Pain, Buenos Aires-Argentina, 6-11 October 2014.

- Morphine-induced conditioned place preference increases apoptotic factors in rat prefrontal cortex (Oral presentation). Zahra Fatahi, **Abbas Haghparast***, Fariba Khodagholi. 8th International Congress of Addiction Science, Tehran-Iran, 10-12 September 2014.

- Microinjection of the Orexin 2 receptor antagonist into the CA1 is partially attenuated the lateral hypothalamus stimulation-induced conditioned place preference (Oral presentation). Marzieh Moradi, Amir Haghparast, Zahra Fatahi, **Abbas Haghparast***. 8th International Congress on Addiction Science, Tehran-Iran, 10-12 September 2014.

- LH stimulation could potentiate the effect of inefective dose of morphine and induce morphine sensitization (Poster presentation). Sara Karimi, **Abbas**

Haghparast*, Mahtash Baniardalan, Sara Sadeghi, Alireza Omranifard. 16th International Neuroscience Winter Conference, Sölden-Austria, 8-12 April 2014.

- Aspects of morphine reward and apoptosis (Oral presentation). Zahra Fatahi, Fariba Khodagholi, **Abbas Haghparast***. 2nd Basic and Clinical Neuroscience Congress, Tehran-Iran, 18-20 December 2013.

- Methamphetamine neurotoxicity: mechanisms, consequences, and promising therapeutics (Oral presentation). Riahi E, Naghdi N, **Haghparast A***. 2nd Basic and Clinical Neuroscience Congress, Tehran-Iran, 18-20 December 2013.

- Effect of morphine induced conditioned place preference on alterations of apoptotic factors in the hippocampus: involvement of acute and subchronic stress (Oral presentation). Fatahi Z, Zeighami Alamdari S, Khodagholi F, **Haghparast A***. 7th National Congress on Addition Science, Tehran-Iran, 11-13 September 2013.

- Interaction between cannabinoid, opioid, and orexin system in reward processing (Oral presentation). **Haghparast A***. 21st International Iranian Congress of Physiology and Pharmacology, Tabriz-Iran, 23-27 August 2013.

- Application of single-unit recording technique in basic pain research (Oral presentation). **Haghparast A***. 1st Basic and Clinical Neuroscience Congress, Tehran-Iran, 7-9 November 2012.

- Blocking D2 receptors in the nucleus accumbens attenuates cannabinoid agonist-induced antinociception in the basolateral amygdale (Poster presentation). **Haghparast A***, Ghalandari-Shamani M, Yazdi-Ravandi S, Hassanpour-Ezatti M. 8th FENS Forum of Neuroscience, Barcelona-Spain, 14-18 July 2012.

- Orexin, a newly characterized peptide, and promising for the treatment of addiction and relapse to drugs of abuse (Oral presentation). **Haghparast A***. 6th National Congress on Addiction Biology, Tehran-Iran, 21-23 June 2012.

- Intra-accumbal administration of AP5, NMDA receptor antagonist, attenuates analgesia induces by cannabinoid receptor agonist (WIN 55,212-2) microinjection into the basolateral amygdale in tail-flick test (Poster presentation). **Haghparast A***, Ghalandari-Shamani M, Hassanpour-Ezatti M. 41st Annual Metting of Society for Neuroscience (SfN), Washington-USA, 12-16 November 2011.

- Existence of cannabinoid receptors in the nucleus cuneiformis: possible involvement in pain modulation (Oral presentation). **Haghparast A***, Ebrahimzadeh-Sarvestani M, Parvishan A. 20th Iranian Congress of Physiology and Pharmacology, Hamadan, Iran, 10-14 October 2011.

- Herbal compounds in the treatment of drug abuse: Fruit essential oil of Cuminum cyminum attenuates morphine-induced conditioned place preference (Oral presentation**). Haghparast A***, Alizadeh AM, Khatibi A. 8th IBRO World Congress of Neuroscience, Florence-Italy, 14-18 July 2011.

- Interaction of orexin and cannabinoid systems in brain reward circuitry (Oral presentation). **Haghparast A***, Taslimi Z, Azizi P. 5th National Congress on Addiction Biology, Tehran-Iran, 22-24 June 2011.

- Changes of CREB, ERK and c-fos in ventral tegmental area after conditioned place preference induced by administration of carbachol into the lateral hypothalamus (Poster presentation). Taslimi Z, Ramin M, Azizi P, Khodagholi F, Safari MS, Hassanpour-Ezatti M, **Haghparast A***. 5th Congress of FAONS and XXVIII Annual Meeting of IAN, Lucknow-India, 25-28 November 2010.

- Role of orexin-A receptors within the locus coeruleus in antinociception induced by microinjection of carbachol into the lateral hypothalamus (Poster presentation). Safari MS, **Haghparast A***. 5th Congress of FAONS and XXVIII Annual Meeting of IAN, Lucknow-India, 25-28 November 2010.

- Effect of non-selective dopamine D1 and D2 receptor agonist, apomorphine, on firing rate of neurons in the ventral pallidum (Poster presentation). **Haghparast A***, Ordikhani-Seyedlar M. 40th Annual Metting of Society for Neuroscience (SfN), San Diego-USA, 13-17 November 2010.

- Lateral hypothalamus stimulation-induced antinociception is mediated in part by the activation of locus coeruleus neurons (Poster presentation). **Haghparast A***, Safari MS, Semnanian S, Ahmadiani A. 7th FENS Forum of Neuroscience, Amsterdam-Netherlands, 3-7 July 2010.

- Role of orexin-1 and cannabinoid CB1 receptors within the ventral tegmental area in conditioned place preference following stimulation of the lateral hypothalamus

(Oral presentation). **Haghparast A***, Taslimi Z. National Symposium of Neuroscience, Golestan-Iran, 16-17 February 2010.

- Electrolytic lesion of dorsolateral periaqueductal gray matter attenuates analgesic response of morphine microinjected into the nucleus cuneiformis (Poster presentation). Leila Ahmad-Molaei, **Abbas Haghparast***. 32nd Annual Meeting of the Japan Neuroscience Society (Neuro2009), Nagoya-Japan, 16-18 September 2009.

- Interaction between nicotine and morphine: involvement of central nicotinic receptors (Poster presentation). Jamal Shams, Alizadeh AM, Khani A, **Haghparast A***. 31st Annual Meeting of the Japan Neuroscience Society (Neuro2008), Tokyo-Japan, 9-11 July 2008.

- Chronic administration of nicotine retards the development of morphine dependency and tolerance in mice (Poster presentation). **Haghparast A***, Naderi N, Khani A, Alizadeh AM, Motamedi F. 30th Annual Meeting of the Japan Neuroscience Society (Neuro2007), Yokohama-Japan, 10-12 September 2007.

- Formalin-induced responses of nucleus cuneiformis neurons in the rat: an electrophysiological study (Poster presentation). **Haghparast A***, Naderi N, Motamedi F. 7th IBRO World Congress of Neuroscience, Melbourne-Australia, 12-17 July 2007.

- Effect of infusion extract prepared from red nutshell of Pistachio (Pistacia vera) on naloxone-induced withdrawal syndrome in morphine-dependent rat (Poster presentation). **Haghparast A***, Ghanbar-Nezhad M, Mohammadi M. 4th Congress of Federation of Asian-Oceanian Neuroscience Societies (FAONS), Hong Kong, November 30 - December 2, 2006.

- Role of glutamatergic receptors in the nucleus raphe magnus on antinociceptive effect of morphine microinjected into the nucleus cuneiformis of the rat (Poster presentation). **Haghparast A***, Hekmat A. 6th IBRO World Congress of Neuroscience, Prague-Czech Republic, 10-15 July 2003.

- Role of gonadectomy in development of hyperalgesia induced by partial sciatic nerve ligation in male mice (Oral presentation). **Haghparast A***, Ashraf-Ganjooei N, Ekhlaspour L, Khodadadi SN. 16th Iranian Congress of Physiology and

Pharmacology, Tehran-Iran, 9-13 May 2003.

- Comparison of intravenous opioids actions on neuropathic pain induced by peripheral nerve injury in rat (Poster presentation). **Haghparast A***, Aslani H, Haghdoost N and Mir-Hosseini S. 5th FAOPS Congress, Kuala Lumpur-Malaysia, 23-26 September 2002.

- Action of morphine on nucleus cuneiformis neurons that modulate nociception in rat (Poster presentation). **Haghparast A***, Shafeai N, Sepehri GR and Semnanian S. 10th World Congress on Pain, San Diego-USA, 17-22 August 2002.

- Gonadal steriods affect on responses to noxious heat stimuli in male and female rats (Poster presentation). **Haghparast A*** and Pakdaman L. 3rd FENS Forum of Neuroscience, Paris-France, 13-17 July 2002.

- Sex-differences in time-course of hyperalgesia induced by sciatic nerve ligation injury in mice (Poster presentation). **Haghparast A***, Ashraf-Ganjooei N, Ekhlaspour L and Navadeh KS. 4th International Congress of Pathophysiology, Budapest-Hungary, June 29 - July 05, 2002.

- Role of NMDA receptor on antinociceptive effects of morphine in the cuneiformis nucleus of rat (Oral presentation). **Haghparast A*** and Gheitasi IP. 15th Iranian Congress of Physiology and Pharmacology, Shiraz-Iran, 5-8 November 2001.

- Effects of local application of cholinergic and anticholinergic drugs onto the nucleus paragigantocellularis on single cell activity in the nucleus locus coeruleus (Poster presentation). **Haghparast A***, Rezvanipour M and Sepehri GR. 34th International Congress of Physiological Sciences, Christchurch-New Zealand, 26-31 August 2001.

- Axonal injury and its recovery in the thalamic neurons of rat after focal cerebral ischemia (Poster presentation). **Haghparast A***, Xing HL. 6th International Congress of Neuroethology, Bonn-Germany, July 29 - August 03, 2001.

- Effects of Aluminum on degeneration of cultured astrocytes derived from rat cerebral cortex (Poster presentation). **Haghparast A***. 1st International Conference on Metals and Brain: From Neurochemistry to Neurodegeneration, Padova-Italy, 20-23 September 2000.

- Naloxone-precipitated withdrawal in the nucleus paragigantocellularis neurons of morphine-dependent rat (Poster presentation). **Haghparast A**, Semnanian S*, Fathollahi Y. 9th World Congress on Pain, Vienna-Austria, 22-27 August 1999.

- The effect of bombesin on tail flick latency in rat (Poster presentation). **Haghparast A**, Semnanian S*, Fathollahi Y, Sarihi A. 33rd International Congress of Physiological Sciences, St. Petersburg-Russia, June 30 - July 05, 1997.

- The assessment of patients suffering migraine without aura using IASP pain database questionnaire (Poster presentation). **Haghparast A**, Najafi M, Semnanian S*. 1st FAONS Congress & 1st IBRO Regional Congress, Pattaya-Thailand, 20-23 October 1996.

- The effects of SO_2 gas on some of the lung capacities of Sarcheshmeh inhabitants in Kerman (Oral presentation). **Haghparast A**, Sanadgol H*, Sepehri GR. 12th Iranian Congress of Physiology & Pharmacology, Tehran-Iran, 6-9 November 1995.

- The effects of SO_2 gas in systolic and diastolic blood pressure of Sarcheshmeh inhabitants in Kerman (Poster presentation). Sanadgol H*, Sepehri GR, **Haghparast A**. 11th Iranian Congress of Physiology & Pharmacology, Tabriz-Iran, 17-20 May 1993.

* **Correspondent**

Direction of Dissertation/Thesis

MSc and PhD Supervisor

[1]. Assessment of the possible role of serum factors, S100B, NSE, MBP and lactate, as biomarkers in acute methadone toxicity and their correlation with imaging findings in a human study and evaluation of cognitive impairment in animal model. **Leila Ahmad-Molaei** (PhD) Thesis in progress

[2]. Effect of chemical stimulation of lateral hypothalamus on neuropathic pain in rat: Possible involvement of orexin receptors in spinal cord. **Sakineh Salehi Marni** (PhD) Thesis in progress

[3]. Effects of Cannabidiol on methamphetamine-induced reinstatement in paradoxical sleep-deprivated rats: behavioral, molecular and electrophysiological study.

Saeideh Karimi Haghighi (PhD) Thesis in progress

[4]. Role of orexin receptors within the nucleus accumbens in acute food deprivation- and drug priming-induced reinstatement of morphine seeking in rats. **Marjan Sahafizadeh** (MSc) Thesis in progress

[5]. Role of dopaminergic receptors in the nucleus accumbens in physical stress-induced reinstatement of morphine seeking in rat. **Zahra Farzinpour** (MSc) Thesis in progress

[6]. Role of D1 and D2 dopamine receptors within the nucleus accumbens in antinociception induced by forced swim stress and restraint stress in formalin test as an animal model of persistent inflammatory pain. **Golnaz Faramarzi** (DVM, PhD) Thesis in progress

[7]. Effects of Forced Swim and Restraint Stresses on devolvement of morphine sensitization: involvement of dopamine D1/D2 receptors in the nucleus accumbens. **Elham Charmchi** (DVM, PhD) Thesis in progress

[8]. Effects of chemical stimulation of lateral hypothalamus on pain-related behaviors in formalin test as an animal model of persistent inflammatory pain: Role of orexin receptors in the rat's ventral tegmental area. **Somayeh Ezzatpanah** (DVM, PhD) Thesis in progress

[9]. Effect of food deprivation on reinstatement of morphine: the role of intra-accumbal D1 and D2 like receptors in rats. **Fatemeh Sadeghzadeh** (DVM, PhD) March 2016

[10]. Evaluation of the effect of excitation and inhibition of astrocytes and microglia in the nucleus accumbens on morphine extinction and reinstatement. **Reza Arezoomandan** (PhD) December 2015

[11]. Role of intra-accumbal CB1 receptor in the extinction period and reinstatement to morphine in conditioned place preference paradigm: A behavioral, and electrophysiological study. **Hossein Khaleghzadeh Ahangar** (PhD) September 2015

[12]. The effects of blockade of NMDA and AMPA receptors during extinction period on reinstatement to morphine in the rat: A behavioral and electrophysiological

study. **Ali Siahposht Khachaki** (PhD) August 2015

[13]. Study of methamphetamine-induced reward in the Streptozocin-diabetic rat: A behavioral, electrophysiological and immunohistochemical study. **Amir-Hossein Bayat** (PhD) June 2015

[14]. Role of mGluR2/3 receptor into the nucleus accumbens in acquisition, expression and reinstatement to morphine in the conditioned place preference paradigm. **Negar Baharlouei** (MSc) June 2015

[15]. The role of orexin receptors within the ventral tegmental area in the sensitization to morphine by conditioned place preference paradigm in rats. **Dorna Mahmoudi** (MSc) September 2014

[16]. The role of orexin receptors within the nucleus accumbens in the sensitization to morphine by conditioned place preference paradigm in rats. **Nasim Asar** (MSc) September 2014

[17]. Role of mGluR5 receptor into the nucleus accumbens in acquisition, expression and reinstatement to morphine in the conditioned place preference paradigm. **Nahid Roohi** (MSc) August 2014

[18]. The effect of insulin on acquisition and expression of morphine-induced conditioned place preference in diabetic rat. **Rezvan Hassanpour** (PharmD) July 2014

[19]. The effect of insulin on extinction and reinstatement to morphine in the streptozotocin-induced diabetic rats. **Atieh Chizari** (PharmD) July 2014

[20]. Study of the role of intra-basolateral amygdala (BLA) cannabinoid receptors on process of sensitization to morphine in the nucleus accumbens (NAc) of rats: a behavioral and molecular stady. **Marzieh Molaei** (MSc) October 2013

[21]. Role of D1 and D2 dopaminergic receptors located in the nucleus accumbens and ventral tegmental area in antinociception induced by stimulation of lateral hypothalamus in acute model of pain in rats. **Marzieh Moradi** (MSc) September 2013

[22]. Role of dorsal hippocampal orexin receptors in development of morphine-induced

conditioned place preference: a behavioral, molecular, and electrophysiological study. **Esmail Riahi** (PhD) July 2013

[23]. Effects of cholinergic stimulation of the lateral hypothalamic area on conditioned place preference induced by ineffective dose of morphine and involvement of ventral tegmental area orexinergic system. **Leila Zarepour** (MSc) May 2013

[24]. Changes in apoptotic factors in the ventral tegmental area and hippocampus after extinction and reinstatement to morphine in rat. **Yasaman Razavi** (MSc) September 2012

[25]. Study of apoptosis in the nucleus accumbens and prefrontal cortex in morphine-treated rat. **Seyedeh Najmeh Katebi** (MSc) September 2012

[26]. Role of intra-accumbal glutamatergic and dopaminergic receptors in cannabinoid-induced antinociception in the basolateral amygdala in the rats. **Mohadeseh Ghalandari-Shamami** (MSc) October 2011

[27]. Role of orexinergic projections of the lateral hypothalamic area to the ventral tegmental area and their interaction with CB1 cannabinoid receptor in development of reward-related behaviors in rat. **Zahra Taslimi** (MSc) July 2011

[28]. Effect of cannabinoid administration into the rat cuneiformis nucleus on pain related behaviors of acute and persistent pain models. **Mohammad Ebrahimzadeh-Sarvestani** (MSc) December 2010

[29]. The role of cannabinoid CB1 receptor on firing rate of neurons in the nucleus accumbens (core) of morphine sensitized rat. **Pegah Azizi** (MSc) August 2009

[30]. Electrophysiological properties of neurons in shell of nucleus accumbens and its relationship with ventral tegmental area following morphine administration in rat. **Mahsa Moaddab** (MSc) July 2009

[31]. Role of glutamatergic pathway between nucleus raphe magnus and cuneiformis nucleus on antinociceptive effect of morphine administered into the nucleus cuneiformis of rat. **Ava Soltani-Hekmat** (MSc) August 2002

[32]. The role of NMDA & non-NMDA receptors in rat cuneiformis nucleus on antinociception effects of opioids. **Izad-Panah Gheitasi** (MSc) May 2001

Direction of Dissertation/Thesis

MSc and PhD Advisor

[1]. Effect of long term and short term aerobic exercise on spatial memory and neurotrophic paramiters at sleep deprived rats. **Mohadeseh Kavianpour** (MSc) Thesis in progress

[2]. Study of the possible protective effects of intra-hippocampal insulin against scopolamine-induced spatial learning and memory impairment: Involvement of MAPK signaling pathway. **Ahmad Jahan Mihan** (MSc) Thesis in progress

[3]. Effect of eight-week aerobic continuous and high intensity interval training on levels of Sirt3 and PGC1α in male wistar rat's skeletal muscle tissue. **Iman Fathi** (PhD) Thesis in progress

[4]. The effect of Eight-week continuous and high intensity interval aerobic training on ischemia tolerance, VEGF-A, and VEGFR2 Levels in male Wistar rat's brain tissue: Stroke model. **Rasoul Rezaei** (PhD) Thesis in progress

[5]. Investigation of Enterolactone's effect on X ray's killing efficacy in human breast carcinoma cell lines (T47D and MDA-MB231). **Bahareh Bigdeli** (PhD) Thesis in progress

[6]. Spiking pattern recognition for rat brain single neuron by using data classification method based on decision-making model in neuroscience by using reinforcement learning. **Masoud Moghaddasi** (MSc) February 2016

[7]. Investigating the role ofdopamine D2-like receptors of paraventricular hypothalamic nucleus (PVN) in food intake after 24 hours food deprived male rats. **Morteza Salimi** (MSc) January 2016

[8]. Improvement of the Izhikevich model based on rat brain neuron real data. **Sahar Hojjatinia** (MSc) September 2015

[9]. Effectiveness of Gestalt group therapy in patients' quality of life with chronic pain. **Mina Zarineh** (MSc) February 2015

[10]. Role of dopamine D1-like receptors within the paraventricular hypothalamus nucleus in food intake in 24h food-deprived rats. **Zahra Mir-Mohammad**

Sadeghi (MSc) September 2014

[11]. Evaluation of the role of $GABA_A$ receptor and GABA transporters (GAT-1 and GAT-3) in CCI model of neuropathic pain using behavioral, electrophysiological and molecular studies in rat: possible role of glia. **Mehdi Sadeghi** (PhD) May 2014

[12]. Electrophysiology and molecular study of changes in the dorsal horn of spinal cord following reduction of morphine analgesia due to chronic constriction nerve injury (CCI) in rat: role of spinal neuroimmune activation. **Samad Nazemi** (PhD) January 2013

[13]. Comparison of self efficacy and personality traits in patients with chronic pain and healthy individuals. **Laleh Amir-Soleimani** (MSc) June 2012

[14]. The role of resilience, intensity and duration of pain on quality of life of patients with pain disorder. **Saeid Yazdi-Ravandi** (MSc) March 2012

[15]. The interaction between orexin and cannabinoid systems in locus coeruleus on pain modulation. **Mir-Shahram Safari** (PhD) September 2010

[16]. Considering the effect of D1 and D2 like dopaminergic receptors on food behavior in 24 hours food deprived rat. **Shiva Bakhshi** (MSc) February 2010

[17]. The study of the neuroprotective effects of curcumin against homocysteine-induced oxidative stress in the rat's brain. **Amin Ataie** (PharmD, PhD) January 2010

[18]. The effect of glucose and orexins microinjection into the hypothalamic paraventricular nucleus and their interactions on basal gastric acid secretion and juice volume in conscious rats. **Neda Chalik** (MSc) August 2009

[19]. Comparison of antinociception induced by subcutaneous administration of lidocaine in morphine dependent and independent rat. **Maryam Taieban** (MD) March 2003

[20]. The effect of inactivation of cuneiformis nucleus by lidocaine microinjection on opioid antinociception response in rat. **Mohammad-Naser Shafei** (MSc) May 2001

[21]. The role of $GABA_A$ receptor inhibitor on morphine antinociceptive action in cuneiformis. **Hamid Sheikhcanlouyeh Milan** (MSc) April 2001

National Research Projects (Grants)

- Effects of morphine addiction and it's withdrawal on cognitive aspects of delay- and/or effort-based decision-making in rat: role of the striatum, prefrontal cortex and hippocampus (behavioral and electrophysiological study). **Abbas Haghparast***, Zahra Fatahi, Abbas Khani, Marzieh Moradi. Grant No. 482 ($32000) by Cognitive Sciences and Technologies Council (CSTC), Iran's Presidency Vice-Chancellor for Research, 15 February 2015.

- Role of cannabinoidergic system (Hashish) in prefrontal cortex on cognitive aspects of effort- and/or delay-based decision making: the role of CB1 and TRPV1 receptors (behavioral and molecular study). **Abbas Haghparast***, Abbas Khani, Zahra Fatahi, Bahman Sadeghi, Marzieh Moradi, Fariba Khodagholi. Grant No. 93025021 ($8000) by Iran National Science Foundation (INSF), 5 January 2015.

- Role of cannabinoid system in various cognitive aspects of decision-making in accumbens - prefrontal cortex circuitry: Behavioural and electrophysiological study. Zahra Fatahi and **Abbas Haghparast***. Grant No. 92037121 ($14800) by Iran National Science Foundation (INSF), 1 May 2014.

- Controlling of neural systems with optogenetics. Hamid Latifi*, Mohammad Ismail Zibaii, **Abbas Haghparast**, Hamid Reza Pouretemad, Leila Dargahi, Fereshteh Motamedi. Grant No. 121 ($78000) by Cognitive Sciences and Technologies Council (CSTC), Iran's Presidency Vice-Chancellor for Research, 15 March 2014.

- Investigating the effect of forced running and the glial cell inhibitor minocycline on the complications produced by long-term methamphetamine abuse. Naser Naghdi*, Esmail Riahi, Samira Choopani, **Abbas Haghparast**. Grant No. 92024199 ($8000) by Iran National Science Foundation (INSF), 12 February 2014.

- A novel approach for methamphetamine dependency and reinstatement: Role of glial cells and their modulators. Ghassem Attarzadeh-Yazdi*, Reza Arezoomandan, Farbia Khodagholi, **Abbas Haghparast**. Grant No. 92010596 ($6800) by Iran National Science Foundation (INSF), 4 September 2013.

- Study of the effects of forced swim stress (physical stress) on expression and acquisition of morphine reward-related behaviors in male rat: a behavioral, molecular and electrophysiological study. **Abbas Haghparast***, Zahra Fatahi, Farbia Khodagholi, Shabnam Zeighamy Alamdari. Grant No. 91003540 ($10000) by Iran National Science Foundation (INSF), 16 January 2013.

* **Correspondent**

Participation in other meetings and workshops

- IBRO-APRC School of Neuroscience
  Melbourne, Victoria, Australia, July 1-6, **2007**

- IBRO Advanced Workshop in Neuroscience by Visiting Lecturer Team Program (VLTP), Tehran, Iran, February 4-13, **2002**

- Joint meeting of the Canadian Physiological Society and the Japanese Physiological Society, Lake Louise, Alberta, Canada, January 19-23, **2000**

- The 5th altschul symposium and the 4th WHO summer School
  Saskatoon, Saskatchewan, Canada, August 18-23, **1999**

Editorial Board Member of the Nat., OA and Intl. Journals

- *American Journal of Neuroscience Research*
- *Anesthesiology and Pain Medicine*
- *Basic & Clinical Neuroscience Journal*
- *Itch & Pain*
- *Journal of Addiction Medical Practice*
- *Journal of Cellular and Molecular Anesthesia*
- *Journal of Substance Abuse and Alcoholism*
- *Pajouhan Scientific Journal*

Journal/Periodical Reviewer

- Acta Neuropsychiatrica
- Acupuncture in Medicine

- Amino Acids
- Archives of Iranian Medicine
- Behavioral and Brain Functions
- Biological Trace Element Research
- BMC Neuroscience
- BMC Pharmacology and Toxicology
- Brain Research
- Brazilian Journal of Medical and Biological Research
- Clinical and Experimental Pharmacology and Physiology
- Drug and Alcohol Dependence
- European Journal of Pain
- International Journal of Endocrinology and Metabolism
- Iranian Biomedical Journal
- Iranian Journal of Basic Medical Sciences
- Iranian Journal of Pharmaceutical Research
- Journal of Neural Transmission
- Journal of Psychopharmacology
- Journal of Spinal Cord Medicine
- Molecular Biology Reports
- Neuropsychopharmacology
- Neuroscience
- Neuroscience Letters
- Pharmacology, Biochemistry and Behavior
- Physiology and Behavior
- Progress in Neuro-Psychopharmacology & Biological Psychiatry

Membership in Societies

- **I**nternational **A**ssociation for the **S**tudy of **P**ain *(IASP)* **1998 - Present**
- **S**ociety **f**or **N**euroscience *(SfN)* **2009 - Present**
- **I**nternational **B**ehavioral **N**euroscience **S**ociety *(IBNS)* **2010 - Present**
- **I**nternational **S**ociety for **N**eurochemistry *(ISN)* **2005 - Present**
- **J**apan **N**euroscience **S**ociety *(JNS)* **2007 - Present**
- **I**nternational **B**rain **R**esearch **O**rganization *(IBRO)* **1999 - Present**
- **I**nternational **U**nion of **P**hysiological **S**ciences *(IUPS)* **1998 - Present**
- **F**ederation of **A**sian-**O**ceanian **N**euroscience **S**ocieties *(FAONS)* **2004 - Present**
- **F**ederation of **A**sian-**O**ceanian **P**hysiological **S**ocieties *(FAOPS)* **2009 - Present**
- **Ir**anian **S**ociety of **P**hysiology & **P**harmacology *(IRSPP)* **1997 - Present**
- **I**ranian **N**euro**s**cience **S**ociety *(INSS)* **1999 - Present**
- **I**ranian **P**ain **S**ociety (*IPS*; IASP Chapter) **1998 - Present**
- **Ir**anian **N**euro**s**cientists **C**ommunity *(IRNSC)* **2011 - Present**