

CURRICULUM VITAE

Name: **Abbas**

Family name: **Haghparast**

Title: **Professor**

Birthday: **06-11-1967**

Place of birth: **Karbala-Iraq**

Nationality: **Iranian**

Status: **Married**

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Educational background

Shahid Bahonar University

Department of Biology

B.Sc. in Biology

1986 - 1990

Kerman-Iran

Kerman University of Medical Sciences

Department of Physiology

M.Sc. in Physiology

1990 - 1993

Kerman-Iran

Tarbiat Modarres University,

School of Medical Science

Ph.D. in Physiology

1995 - 1999

Tehran-Iran

University of Saskatchewan,

Institute of Physiology

Postdoctoral Fellow

1999 - 2000

Saskatoon-Canada

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

- Member of the Iranian Neuroscience Council, Ministry of Health and Medical Education, Islamic Republic of Iran ((**2019 - Present**))
- Associate member of the Academy of Medical Sciences Islamic Republic of Iran, Department of *NBIC* (**2016 - Present**)

- Secretary of the Iran-Brazil Collaboration Desk in the Cognitive Sciences and Technologies Council (CSTC), Iranian Science and Technology Vice-Presidency **(2015 - Present)**
- Director of Scientific Resources, Central Library and Archive Center, Shahid Beheshti University of Medical Sciences **(2015 - Present)**
- Board Member of Research Committee of the Substance Abuse and Dependence Research Center, University of Social Welfare and Rehabilitation Sciences **(2014 - Present)**
- Member of the Steering Committee of the Neurobiology Research Center, Shahid Beheshti University of Medical Sciences **(2014 - Present)**
- Associate Member of the Neurobiology Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran **(2013 - Present)**
- Member of the Steering Committee of the Education, Human Resources and Promotion, Cognitive Sciences and Technologies Council (CSTC), Iranian Science and Technology Vice-Presidency **(2013 - Present)**
- Council Member of the Iranian Pain Society; IASP Chapter **(2013 - Present)**
- Secretary-General of the Iranian Neuroscience Society; INSS **(2013 - 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)**
- Chair Deputy of the 6th Basic and Clinical Neuroscience Congress, Tehran, Iran, **20-22 December 2017.**
- 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)**

- Editorial Board Member of the *Pajouhan Scientific Journal* (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), Iranian Science and Technology Vice-Presidency (2014 - Present)
- Editorial Board Member of the *Itch & Pain* journal (2014 - Present)
- Editorial Board Member of the *Anesthesiology and Pain Medicine* journal (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)
- Senior Editorial Board Member of the *American Journal of Neuroscience Research* (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)*
- Editorial Board Member of the *Federation of the Asian-Oceanian Physiological Societies (FAOPS) Newsletter (2005 - Present)*

Academic - Executive experiences

- Scientific Committee member of the 5th Basic and Clinical Neuroscience Congress, Tehran, Iran, 20-22 December 2017.
- Scientific Committee member of the 11th Annual International Addiction Science Congress, Tehran, Iran, 13-15 September 2017.
- 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 (**2017**) in Basic Medical Sciences, 14th Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 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]. Karimi-Haghighi S, Dargahi L**, **Haghparsat A***. Cannabidiol modulates the expression of neuroinflammatory factors in stress- and drug-induced reinstatement of methamphetamine in extinguished rats. *Addiction Biology* 2019; doi: 10.1111/adb.12740.
- [2]. Zarrabian S, Riahi E, Karimi S, Razavi Y, **Haghparsat A***. The potential role of the orexin reward system in future treatments for opioid drug abuse. *Brain Research* 2019; doi:10.1016/j.brainres.2018.11.023.
- [3]. Azizbeigi R*, Farzinpour Z, **Haghparsat A**. Role of Orexin-1 Receptor Within the Ventral Tegmental Area in Mediating Stress- and Morphine Priming-Induced Reinstatement of Conditioned Place Preference in Rats. *Basic and Clinical Neuroscience* 2019; doi:10.32598/bcn.9.10.130.
- [4]. Rezaee L, Salehi S, Alizadeh AM, Fazli-Tabaei S,*, **Haghparsat A,****. Spinal orexin-2 receptors are involved in modulation of the lateral hypothalamic stimulation-induced analgesia. *Neurochemical Research* 2019; 44:1152-8.
- [5]. Azadi M, Azizi H*, **Haghparsat A**. Paternal exposure to morphine during adolescence induces reward-resistance phenotype to morphine in male offspring. *Brain Research Bulletin* 2019; 147:124-32.
- [6]. Jahanmahin A, Abbasnejad Z, **Haghparsat A**, Ahmadiani A, Ghasemi R*. Intrahippocampal Insulin Injection Does Not Prevent Against Scopolamine-Induced Spatial Memory Impairment and ERK Alteration. *Basic and Clinical Neuroscience* 2019; 10(1):23-36.
- [7]. Naghavi FS, Namvar P, Sadeghzadeh F, **Haghparsat A***. The involvement of intra-hippocampal dopamine receptors in the conditioned place preference induced by orexin administration into the rat ventral tegmental area. *Iranian Journal of Pharmaceutical Research* 2019; 18(1):328-38.
- [8]. Taslimi Z, Komaki A, Sarihi A, **Haghparsat A***. Effect of acute and chronic restraint stress on electrical activity of prefrontal cortex neurons in the reinstatement of extinguished methamphetamine-induced conditioned place preference: An electrophysiological study. *Brain Research Bulletin* 2019; 146:237-43.

- [9]. Azizbeigi R*, **Haghparast A**. Involvement of orexin-2 receptor in the ventral tegmental area in stress- and drug priming-induced reinstatement of conditioned place preference in rats. *Neuroscience Letters* 2019; 696:121-6.
- [10]. Karimi S, Hamidi G**, Fatahi Z, **Haghparast A***. Orexin 1 receptors in the anterior cingulate and orbitofrontal cortex regulate cost and benefit decision-making. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 2019; 89:227-35.
- [11]. Farzinpour Z, Taslimi Z, Azizbeigi R, Karimi-Haghighi S, **Haghparast A***. Involvement of orexinergic receptors in the nucleus accumbens, in the effect of forced swim stress on the reinstatement of morphine seeking behaviors. *Behavioural Brain Research* 2019; 356:279-87.
- [12]. Nazari-Serenjeh F, Rezaee L, Zarrabian S, **Haghparast A***. Comparison of the role of D1- and D2-like receptors in the CA1 region of the hippocampus in the reinstatement induced by a subthreshold dose of morphine and forced swim stress in extinguished morphine-CPP in rats. *Neurochemical Research* 2018; 43:2092-101.
- [13]. Alizamini MM, Kavianpour M 1, Karimi-Haghighi S, Fatahi Z, Haghparast A*. Intra-hippocampal administration of orexin receptor antagonists dose-dependently attenuates reinstatement of morphine seeking behavior in extinguished rats. *Peptides* 2018; 110:40-6.
- [14]. Shareghi Brojeni M, Salimi M, Mirmohammadsadeghi Z, **Haghparast A**, Eliassi A*. Comparison of Effects of Light Anesthetics, Diethyl Ether and Carbon Dioxide, on Hypothalamic Paraventricular Nucleus D1 and D2 Dopamine Receptors- and Glucosensitive Neurons-Induced Food Intake in Fasted Conscious Rats. *Basic and Clinical Neuroscience* 2018; 9(4):269-74.
- [15]. Ahmad-Molaei L, Hassanian-Moghaddam H, Farnaghi F, Khodagholi F, Ahadi R, Tomaz C**, **Haghparast A***. Delay-dependent impairments in memory and motor functions after acute methadone overdose in rats. *Frontiers in Pharmacology* 2018; 9:1023, doi:10.3389/fphar.2018.01023.
- [16]. Mirshekar MA, Sarkaki AR*, Farbood Y, Gharib Naseri MK, Badavi M, Mansouri MT, **Haghparast A**. Neuroprotective effects of gallic acid in a rat

model of traumatic brain injury: behavioral, electrophysiological and molecular studies. *Iranian Journal of Basic Medical Sciences* 2018; 21:1056-63.

- [17]. Khaleghzadeh-Ahangar H, Khodagholi F, Shaerzadeh F, **Haghparast A***. Modulatory role of the intra-accumbal CB1 receptor in protein level of the c-fos and pCREB/CREB ratio in the nucleus accumbens and ventral tegmental area in extinction and morphine seeking in the rats. *Brain Research Bulletin* 2018; 142:320-7.
- [18]. Akbari E, Mirzaei E, Rezaee L, Zarrabian S, **Haghparast A***. The effect of amitriptyline administration on pain-related behaviors in morphine-dependent rats: hypoalgesia or hyperalgesia? *Neuroscience Letters* 2018; 683:185-9.
- [19]. Katebi N, Farahimanesh S, Fatahi Z, Zarrabian S, **Haghparast A***. Involvement of D1- and D2-like dopamine receptors in the dentate gyrus in the acquisition, expression, and extinction of the morphine-induced conditioned place preference in rats. *Behavioural Brain Research* 2018; 353:185-93.
- [20]. Kermani M*, Fatahi Z*, Sun D, **Haghparast A**, French C. Operant protocols for assessing cost-benefit analysis during reinforced decision making by rodents. *Journal of Visualized Experiments (JoVE)* 2018; e57907:1-6.
- [21]. Farahimanesh S, Moradi M, Nazari-Serenjeh F, Zarrabian S, **Haghparast A***. Role of D1- and D2-like dopamine receptors within the ventral tegmental area in stress- and drug priming-induced reinstatement of morphine seeking in rats. *Behavioral Pharmacology* 2018; 29: 426-36.
- [22]. Baharlouei N, Sarihi A, Moradi M, Zarrabian S, **Haghparast A***. Microinjection of the mGluR2/3 agonist, LY379268, into the nucleus accumbens attenuates extinction latencies and the reinstatement of morphine-induced conditioned place preference in rats. *Behavioral Pharmacology* 2018; 29:385-92.
- [23]. Edalat P, Kavianpour M, Zarrabian S, **Haghparast A***. Role of orexin-1 and orexin-2 receptors in the CA1 region of hippocampus in the forced swim stress- and food deprivation-induced reinstatement of morphine seeking behaviors in rats. *Brain Research Bulletin* 2018; 142:25-32.
- [24]. Rezaei R, Nasoohi S, **Haghparast A**, Khodagholi F, Bigdeli MR, Nourshahi M.

High intensity exercise preconditioning provides differential protection against brain injury following experimental stroke. *Life Sciences* 2018; 270:30-5.

- [25]. Vatankhah M, Karimi-Haghighi S, Sarihi A, **Haghparsat A***. Intra-accumbal administration of AMN082, a metabotropic glutamate receptor type 7 allosteric agonist, inhibits the acquisition but not the expression of morphine-induced conditioned place preference in rats. *Neuroscience Letters* 2018; 681:56-61.
- [26]. Rezaee L, Karimi-Haghighi S, Fazli-Tabaei S*, **Haghparsat A****. Effects of intrathecal administration of orexin-1 receptor antagonist on antinociceptive responses induced by chemical stimulation of lateral hypothalamus in an animal model of tonic nociception. *Neuropeptides* 2018; 69:19-25.
- [27]. Taslimi Z, Komaki A, **Haghparsat A**, Sarihi A*. Effects of acute and chronic restraint stress on reinstatement of extinguished methamphetamine-induced conditioned place preference in rats. *Basic and Clinical Neuroscience* 2018; 9(3):157-66.
- [28]. Taslimi Z, Sarihi A, **Haghparsat A***. Glucocorticoid receptors in the basolateral amygdala mediated the restraint stress-induced reinstatement of methamphetamine-seeking behaviors in rats. *Behavioural Brain Research* 2018; 348:150-9.
- [29]. Vatankhah M, Sarihi A*, Komaki A, Shahidi S, **Haghparsat A**. AMN082—a metabotropic glutamate receptor type 7 allosteric agonist in the NAc facilitates extinction and inhibits the reinstatement of morphine-induced conditioned place preference in male rats. *Brain Research Bulletin* 2018; 140:28-33.
- [30]. Fatahi Z, Reisi Z, Rainer G, **Haghparsat A***, Khani A*. Cannabinoids induce apathetic and impulsive patterns of choice through CB1 receptors and TRPV1 channels. *Neuropharmacology* 2018; 133:75-84.
- [31]. Shafiei I, Vatankhah M, Zarepour L, Ezzatpanah S, **Haghparsat A***. Role of D1- and D2-like dopaminergic receptors in the nucleus accumbens in modulation of formalin-induced orofacial pain: involvement of lateral hypothalamus. *Physiology & Behavior* 2018; 188:25-31.
- [32]. Karimi-Haghighi S, **Haghparsat A***. Cannabidiol inhibits priming-induced

- reinstatement of Methamphetamine in REM sleep deprived rats. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 2018; 82:307-13.
- [33]. Farahimanesh S, Karimi S, **Haghparast A***. Role of orexin-1 receptors in the dorsal hippocampus (CA1 region) in expression and extinction of the morphine-induced conditioned place preference in the rats. *Peptides* 2018; 101:25-31.
- [34]. Pourreza P, Babapour V, **Haghparast A***. Role of dorsal hippocampal orexin-1 receptors in modulation of antinociception induced by chemical stimulation of the lateral hypothalamus. *Physiology & Behavior* 2018; 185:79-86.
- [35]. Fatahi Z, **Haghparast A***. Activation of the cannabinoid system in the nucleus accumbens affects effort-based decision making. *Pharmacology, Biochemistry and Behavior* 2018; 165:29-35.
- [36]. Haghparast A, Shafiei I, Alizadeh AM, Ezzatpanah S, **Haghparast A***. Blockade of the orexin receptors in the CA1 region of hippocampus decreased the lateral hypothalamic-induced antinociceptive responses in the model of orofacial formalin test in the rats. *Peptides* 2018; 99:217-22.
- [37]. Sahafzadeh M, Karimi-Haghighi S, Mousavi Z, **Haghparast A***. Role of the orexin receptors within the nucleus accumbens in the drug priming-induced reinstatement of morphine seeking in the food deprived rats. *Brain Research Bulletin* 2018; 137:217-24.
- [38]. Farzinpour Z, Mousavi Z, Karimi-Haghighi S, **Haghparast A***. Antagonism of the D1- and D2-like dopamine receptors in the nucleus accumbens attenuates forced swim stress- and morphine priming-induced reinstatement of extinguished rats. *Behavioural Brain Research* 2018; 341:16-25.
- [39]. Fatahi Z, **Haghparast A***, Khani A, Kermani M*. Functional connectivity between Anterior Cingulate cortex and Orbitofrontal cortex during value-based decision making. *Neurobiology of Learning and Memory* 2018; 147:74-8.
- [40]. Mirmohammadsadeghi Z, Shareghi Brojeni M, **Haghparast A**, Eliassi A*. Role of paraventricular hypothalamic dopaminergic D1 receptors in food intake regulation of food-deprived rats. *European Journal of Pharmacology* 2018; 818:43-9.

- [41]. Siahposht-Khachaki A, Ezzatpanah S, Razavi Y, **Haghparsat A***. NMDA receptor dependent changes in c-fos and p-CREB signaling following extinction and reinstatement of morphine place preference. *Neuroscience Letters* 2018; 662:147-51.
- [42]. Fatahi Z, Sadeghi B, **Haghparsat A***. Involvement of cannabinoid system in the nucleus accumbens on delay-based decision making in the rat. *Behavioural Brain Research* 2018; 337:107-13.
- [43]. Arezoomandan R, Riahi E, **Haghparsat A***. Minocycline, a glial cell modulator, modifies the effects of morphine on nucleus accumbens neurons in reinstatement phase: An electrophysiological study. *Addiction Biology* 2017; 23:1055-66.
- [44]. Rezaei R, Nourshahi M, Khodagholi F, **Haghparsat A**, Nasoohi S, Bigdeli M, Ashabi G*. Differential impact of treadmill training on stroke induced neurological disorders. *Brain Injury* 2017; 31:1910-17.
- [45]. Farahimanesh S, Zarrabian S, **Haghparsat A***. Role of orexin receptors in the ventral tegmental area on acquisition and expression of morphine-induced conditioned place preference in the rats. *Neuropeptides* 2017; 66:45-51.
- [46]. Khaleghzadeh-Ahangar H, **Haghparsat A***. Intra-accumbal cannabinoid agonist attenuated reinstatement but not extinction period of morphine-induced conditioned place preference; evidence for different characteristics of extinction period and reinstatement. *Neurochemical Research* 2017; 42:3321-30.
- [47]. Karimi S, Mesdaghinia A, Farzinpour Z, Hamidi G*, **Haghparsat A****. Reversible inactivation of the lateral hypothalamus reversed high reward choices in cost-benefit decision-making in rats. *Neurobiology of Learning and Memory* 2017; 145:135-42.
- [48]. Ameri F, Vazifeshenas N, **Haghparsat A***. The Impact of audio book on the elderly mental health. *Basic and Clinical Neuroscience* 2017; 8(5):361-70.
- [49]. Alizamini MM, Farzinpour Z, Ezzatpanah S, **Haghparsat A***. Role of intra-accumbal orexin receptors in the acquisition of morphine-induced conditioned place preference in the rats. *Neuroscience Letters* 2017; 660:1-5.
- [50]. Fatahi Z, Zibaii MI, **Haghparsat A***. Effect of acute and subchronic stress on

electrical activity of basolateral amygdala neurons in conditioned place preference paradigm: an electrophysiological study. *Behavioural Brain Research* 2017; 335:19-25.

- [51]. Siahposht-Khachaki A, Pourreza P, Ezzatpanah S, **Haghparsat A***. Nucleus accumbens dopamine receptors mediate hypothalamus-induced antinociception in the rat formalin test. *European Journal of Pain* 2017; 21(7):1285-94.
- [52]. Sadeghzadeh F, Babapour V, **Haghparsat A***. Food deprivation facilitates reinstatement of morphine-induced conditioned place preference: role of intra-accumbal dopamine D2-like receptors in associating reinstatement of morphine CPP with stress. *Synapse* 2017; 71(4):e21951; 1-11.
- [53]. Siahposht-Khachaki A, Fatahi Z, Yans A, Khodaghoh F, **Haghparsat A***. Involvement of AMPA/kainate glutamate receptor in the extinction and reinstatement of morphine-induced conditioned place preference: a behavioral and molecular study. *Cellular and Molecular Neurobiology* 2017; 37(2):315-28.
- [54]. Esmaeili MH, Reisi Z, Ezzatpanah S, **Haghparsat A***. Role of orexin-2 and CB1 receptors within the periaqueductal gray matter in lateral hypothalamic-induced antinociception in rats. *Behavioural Pharmacology* 2017; 28(1):83-9.
- [55]. Jahangirvand M, Yazdi F, Moradi M, **Haghparsat A***. Intra-accumbal orexin-1 receptors are involved in antinociception induced by stimulation of the lateral hypothalamus in the formalin test as an animal model of persistent inflammatory pain. *Iranian Journal of Pharmaceutical Research* 2016; 15(4):851-9.
- [56]. Zibaii MI*, Latifi H, Asadollahi A, Bayat AH, **Haghparsat A**. Label free fiber optic apta-biosensor for dopamine detection. *Journal of Lightwave Technology* 2016; 34(19):4516-24.
- [57]. Bigdeli B, Goliaei B*, Masoudi-Khoram N, Jooyan N, Nikoofar A, Rouhani M, **Haghparsat A**, Mamashli F. Enterolactone: A novel radiosensitizer for human breast cancer cell lines through impaired DNA repair and increased apoptosis. *Toxicology and Applied Pharmacology* 2016; 313:180-94.
- [58]. Esmaeili MH, Reisi Z, Ezzatpanah S, **Haghparsat A***. Functional interaction between orexin-1 and CB1 receptors in the periaqueductal gray matter during

antinociception induced by chemical stimulation of the lateral hypothalamus in rats. *European Journal of Pain* 2016; 20(10):1753-62.

- [59]. Siahposht-Khachaki A, Fatahi Z, **Haghparast A***. Reduction of the morphine maintenance by blockade of the NMDA receptors during extinction period in conditioned place preference paradigm of rats. *Basic and Clinical Neuroscience* 2016; 7(4):341-50.
- [60]. Faramarzi G, Zendehtdel 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. *European Journal of Pain* 2016; 20:1423-32.
- [61]. Assar N, Mahmoudi D, Farhoudian A, Farhadi MH, Fatahi Z, **Haghparast A***. D1- and D2-like dopamine receptors in the CA1 region of the hippocampus are involved in the acquisition and reinstatement of morphine-induced conditioned place preference. *Behavioural Brain Research* 2016; 312:394-404.
- [62]. 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. *Behavioural Pharmacology* 2016; 27(5):431-8.
- [63]. 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; 20:1090-101.
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List of Publications

Abstract in Journal

- [1]. Optogenetics and optrode technology to brain function manipulation (Conference

Paper). Zibaii MI*, Dargahi L, Ronaghi A, Abedzadeh F, Pandamoz S, Salehi S, Fatahi Z, **Haghparsat A**, Latifi H. Proceedings of the 4th International Conference on Photonics, Optics and Laser Technology, PHOTOPTICS 2016, Rome, Italy, Feb. 27-29, 2016, Pages 323-334.

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Book Publications

Book Chapters

- [1]. **Haghparast A***, Fatahi Z, Arezoomandan R, Karimi S, Taslimi Z, Zarrabian S. Functional roles of orexin/hypocretin receptors in reward circuit. In: Brain Research in Addition. *Progress in Brain Research 2017; 235:139-54*.
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Translated Book

- [4]. Introduction to Cognitive Neuroscience (2012), Liro P Jääskeläinen. Translated by Shahram Zarrabian, Mohammad Nasehi and **Abbas Haghparast***, *Ensan Publishing Co.*, Tehran, Iran; 2018.
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Oral and Poster Presentations (Selected Abstracts)

329 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 Zendehtdel, **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 subcortical 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 Zendehtdel, 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 ineffective 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 Addiction 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 Meeting 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). **Haghparsat 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). **Haghparsat 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). **Haghparsat 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, Khodaghohi F, Safari MS, Hassanpour-Ezatti M, **Haghparsat 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, **Haghparsat 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). **Haghparsat A***, Ordikhani-Seyedlar M. 40th Annual Meeting 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). **Haghparsat A***, Safari MS, Semnani 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). **Haghparsat 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). **Haghparsat A***, Shafeai N, Sepehri GR and Semnianian S. 10th World Congress on Pain, San Diego-USA, 17-22 August 2002.
- Gonadal steroids affect on responses to noxious heat stimuli in male and female rats (Poster presentation). **Haghparsat 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). **Haghparsat 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). **Haghparsat 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). **Haghparsat 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). **Haghparsat 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). **Haghparsat 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 SO₂ 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 SO₂ 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

National Research Projects (Grants)

- Effect of chemical stimulation of the lateral hypo-thalamus on formalin-induced orofacial pain: role of D1- and D2-like receptors in the nucleus accumbens. **Abbas Haghparast*** and Iman Shafiei. Grant No. 963350 (\$8000) by the National Institutes for Medical Research Development (*NIMAD*), Ministry of Health and Medical Education of Iran, 10 January 2018.
- Academic Visit in Exchange between Chinese Academy of Sciences and Iranian Science and Technology Vice-Presidency. **Abbas Haghparast***. Grant No. 96004390 (\$1000) by Iran National Science Foundation (*INSF*), 1 October 2017.
- Role of orexin-1 and orexin-2 receptors within the hippocampus in modulating effect of lateral hypothalamus on orofacial pain in the rats. **Abbas Haghparast*** and

Amir Haghparast. Grant No. 943761 (\$8000) by the National Institutes for Medical Research Development (*NIMAD*), Ministry of Health and Medical Education of Iran, 1 August 2016.

- Using Optogenetics technique to specific blocking of the glutamatergic neurons in the prefrontal cortex for investigating functional changes in neural activity/pattern and plasticity in neural network of the reward circuit in animal model: an Electrophysiological and Immunohistochemical study. **Abbas Haghparast***, Zahra Fatahi, Mohammad Reza Daliri, Mahdi Aliyari, Mohammad Ismail Zibaii, Leila Dargahi. Grant No. 95P11 (\$125000) by Cognitive Sciences and Technologies Council (*CSTC*), Iranian Science and Technology Vice-Presidency, 16 July 2016.
- 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. 808 (\$32000) by Cognitive Sciences and Technologies Council (*CSTC*), Iranian Science and Technology Vice-Presidency, 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 Khodaghali. 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 Pouretmad, Leila Dargahi, Fereshteh Motamedi. Grant No. 121 (\$78000) by Cognitive Sciences and Technologies Council (*CSTC*), Iranian Science and Technology Vice-Presidency, 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

Direction of Dissertation/Thesis

MSc and PhD Supervisor

- [1]. Investigating the single and population activity pattern in neural network of the nucleus Accumbens in the natural- and morphine- induced reward in animal model. **Shole Jamali** (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]. Effect of spatial memory learning and parental gender on neuroplasticity and BDNF expression in the next generation. **Javad Riyahi Farsani** (PhD) Thesis in progress
- [4]. Role of lateral hypothalamus orexinergic projections and orexinergic receptor 1 in the prefrontal cortex on cost and benefit decision making: Behavioral and electrophysiological study. **Sara Karimi** (PhD) Thesis in progress
- [5]. Role of orexin-1 and orexin-2 receptors in the CA1 region of the hippocampus in the antinociceptive responses induced by chemical stimulation of the lateral hypothalamus in formalin test as an animal model of persistent inflammatory pain. **Pooya Pourreza** (PhD) Thesis in progress

- [6]. Effects of Cannabidiol on methamphetamine-induced reinstatement in paradoxical sleep-deprived rats: behavioral, molecular & electrophysiological study. **Saeideh Karimi-Haghighi** (PhD) February 2019
- [7]. Effects of acute and chronic restraint stress on prefrontal cortical cell firing during reinstatement of methamphetamine-seeking in rat: Role of glucocorticoid receptors in the basolateral amygdala. **Zahra Taslimi** (PhD) January 2019
- [8]. 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) September 2018
- [9]. Role of orexin receptors in the Dentate Gyrus (DG) of the hippocampus in the antinociception induced by chemical stimulation of the lateral hypothalamus in animal model of persistent inflammatory pain. **Behnaz Rasouli** (PharmD) February 2018
- [10]. Role of nucleus accumbens metabotropic glutamate receptor type 7 (mGluR7) in acquisition, expression, extinction and reinstatement to morphine in the conditioned place preference paradigm. **Mahsaneh Vatankhah** (MSc) September 2017
- [11]. 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) September 2016
- [12]. Effects of Forced Swim and Restraint Stresses on devaluation of morphine sensitization: involvement of dopamine D1/D2 receptors in the nucleus accumbens. **Elham Charmchi** (PhD) September 2016
- [13]. 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** (PhD) September 2016
- [14]. 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** (PhD) July 2016
- [15]. Role of dopaminergic receptors in the nucleus accumbens in physical stress-induced reinstatement of morphine seeking in rat. **Zahra Farzinpour** (MSc) May 2016
- [16]. Examination of Behavioral and Electrophysiological Role of GABAA and NMDA Receptors in the shell of the Nucleus Accumbens on Learning in Methamphetamine-treated rats. **Somayeh Heysieattalab** (PhD) May 2016
- [17]. Effect of food deprivation on reinstatement of morphine: the role of intra-accumbal D1 and D2 like receptors in rats. **Fatemeh Sadeghzadeh** (PhD) March 2016
- [18]. 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
- [19]. 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
- [20]. 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
- [21]. Study of methamphetamine-induced reward in the Streptozocin-diabetic rat: A behavioral, electrophysiological and immunohistochemical study. **Amir-Hossein Bayat** (PhD) June 2015
- [22]. 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
- [23]. 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

- [24]. The role of orexin receptors within the nucleus accumbens in the sensitization to morphine by conditioned place preference paradigm in rats. **Nasim Assar** (MSc) September 2014
- [25]. 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
- [26]. The effect of insulin on acquisition and expression of morphine-induced conditioned place preference in diabetic rat. **Rezvan Hassanpour** (PharmD) July 2014
- [27]. The effect of insulin on extinction and reinstatement to morphine in the streptozotocin-induced diabetic rats. **Atieh Chizari** (PharmD) July 2014
- [28]. 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 study. **Marzieh Molaei** (MSc) October 2013
- [29]. 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
- [30]. 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
- [31]. 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
- [32]. Changes in apoptotic factors in the ventral tegmental area and hippocampus after extinction and reinstatement to morphine in rat. **Yasaman Razavi** (MSc) September 2012
- [33]. Study of apoptosis in the nucleus accumbens and prefrontal cortex in morphine-treated rat. **Seyedeh Najmeh Katebi** (MSc) September 2012

- [34]. 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
- [35]. 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
- [36]. 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
- [37]. 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
- [38]. 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
- [39]. 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
- [40]. 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]. Effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat: Possible involvement of dopaminergic receptors in the nucleus accumbens. **Asrin Sharifi** (MSc) Thesis in progress
- [2]. The Effectiveness of Mindfulness-Based Stress Reduction in the Signs of Psychology (Depression, Anxiety, and Stress) and Executive Functions in Patients with Relapsing-Remitting Multiple Sclerosis. **Yalda Rahnamaei** (MSc) Thesis in progress
- [3]. The effect of pain on the coordination variability and learning of Darts throwing

- Skill. **Hassan Arie**h (PhD) Thesis in progress
- [4]. Considering the reciprocal relationship between VTA- and PVN-D1 receptors in food intake regulation of 18 hours food-deprived male rats. **Farzaneh Saebirad** (MSc) Thesis in progress
- [5]. To study role of dopaminergic receptors in the dentate gyrus of hippocampus on reinstatement of morphine following food deprivation in male adult rats and changes in phosphorylation of ERK and CREB. **Orkideh Mozafari** (MSc) Thesis in progress
- [6]. Effect of cannabidiol on behavior, histological, gene and miRNA expression changes related to neurogenesis after injecting methamphetamine in dentate gyrus of rat hippocampus. **Yasaman Razavi** (PhD) Thesis in progress
- [7]. Role of orexinergic receptors within the nucleus accumbens in antinociceptive responses induced by chemical stimulation of the lateral hypothalamus in animal model of orofacial pain. **Amir Haghparast** (Dentistry, DMD) Thesis in progress
- [8]. Effect of chemical stimulation of the lateral hypothalamus on formalin-induced orofacial pain: role of dopaminergic receptors in the ventral tegmental area. **Tina Matini** (Dentistry, DMD) Thesis in progress
- [9]. Investigating of interaction of the paraventricular nucleus dopamine D1 receptors and glucose-sensitive neurons on food intake and their effects on serum levels of ghrelin, leptin glucose and insulin in 18 hours deprived-food rats. **Masoud Shareghi-Brojani** (MSc) January 2019
- [10]. Effect of high intensity interval training preconditioning on BDNF and some miRNAs in hippocampus of depressed male Wistar rats. **Ayyub Babaei** (PhD) January 2019
- [11]. Design and implementation of oscillation phase control system in closed-loop optogenetics stimulation. **Ahmad Ghorbani** (MSc) January 2019
- [12]. Effect of chemical stimulation of the lateral hypothalamus on formalin-induced orofacial pain: role of orexin-1 receptors in the ventral tegmental area. **Emad Safari Sandiani** (Dentistry, DMD) September 2018

- [13]. Behavioral pattern recognition for rat based on LFP data and cross-correlation methods. **Elham Najafiani** (MSc) February 2018
- [14]. The effect of continuous and high intensity interval aerobic of training on spatial memory and BDNF neurotrophic in rats following ischemia. **Mohadeseh Kavianpour** (MSc) September 2017
- [15]. Investigating the effect of chronic morphine exposure during adolescence in male rats on motivational aspects of morphine and withdrawal syndrome, Paragigantocellularis and ventral tegmental area neuronal activity in male offspring. **Maryam Azadi** (MSc) August 2017
- [16]. 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) January 2017
- [17]. Investigation of Enterolactone's effect on X ray's killing efficacy in human breast carcinoma cell lines (T47D and MDA-MB231). **Bahareh Bigdeli** (PhD) January 2017
- [18]. Effect of eight-week aerobic continuous and high intensity interval training on levels of Sirt3 and PGC1 α in male wistar rat's skeletal muscle tissue. **Iman Fathi** (PhD) December 2016
- [19]. 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) October 2016
- [20]. 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
- [21]. Investigating the role of dopamine D2-like receptors of paraventricular hypothalamic nucleus (PVN) in food intake after 24 hours food deprived male rats. **Morteza Salimi** (MSc) January 2016
- [22]. Improvement of the Izhikevich model based on rat brain neuron real data. **Sahar Hojjatinia** (MSc) September 2015

- [23]. Effectiveness of Gestalt group therapy in patients' quality of life with chronic pain. **Mina Zarineh** (MSc) February 2015
- [24]. 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
- [25]. 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
- [26]. 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
- [27]. Comparison of self-efficacy and personality traits in patients with chronic pain and healthy individuals. **Laleh Amir-Soleimani** (MSc) June 2012
- [28]. The role of resilience, intensity and duration of pain on quality of life of patients with pain disorder. **Saeid Yazdi-Ravandi** (MSc) March 2012
- [29]. The interaction between orexin and cannabinoid systems in locus coeruleus on pain modulation. **Mir-Shahram Safari** (PhD) September 2010
- [30]. Considering the effect of D1 and D2 like dopaminergic receptors on food behavior in 24 hours food deprived rat. **Shiva Bakhshi** (MSc) February 2010
- [31]. The study of the neuroprotective effects of curcumin against homocysteine-induced oxidative stress in the rat's brain. **Amin Ataie** (PhD) January 2010
- [32]. 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 Chalikh** (MSc) August 2009
- [33]. Comparison of antinociception induced by subcutaneous administration of lidocaine in morphine dependent and independent rat. **Maryam Taieban** (MD) March 2003

- [34]. The effect of inactivation of cuneiformis nucleus by lidocaine microinjection on opioid antinociception response in rat. **Mohammad-Naser Shafei** (MSc) May 2001
- [35]. The role of GABA_A receptor inhibitor on morphine antinociceptive action in cuneiformis. **Hamid Sheikhcanlouyeh Milan** (MSc) April 2001

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
- Austin Journal of Drug Abuse and Addiction
- 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

- **Iranian Society of Physiology & Pharmacology (*IRSP*) 1997 - Present**
- **International Union of Physiological Sciences (*IUPS*) 1998 - Present**
- **Iranian Pain Society (*IPS*; IASP Chapter) 1998 - Present**
- **International Brain Research Organization (*IBRO*) 1999 - Present**
- **Iranian Neuroscience Society (*INSS*) 1999 - Present**
- **International Association for the Study of Pain (*IASP*) 2002 - Present**
- **Federation of Asian-Oceanian Neuroscience Societies (*FAONS*) 2004 - Present**
- **International Society for Neurochemistry (*ISN*) 2005 - Present**
- **Japan Neuroscience Society (*JNS*) 2007 - Present**
- **Society for Neuroscience (*SfN*) 2009 - Present**
- **Federation of Asian-Oceanian Physiological Societies (*FAOPS*) 2009 - Present**
- **International Behavioral Neuroscience Society (*IBNS*) 2010 - Present**
- **Iranian Neuroscientists Community (*IRNSC*) 2011 - Present**
- **Canadian Association for Neuroscience (*CAN*) 2016 - Present**
- **Organization for Human Brain Mapping (*OHBM*) 2017 - Present**
- **German Neuroscience Society (*GNS*; *FENS*) 2018 - Present**