

# 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

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 & Research Director (Principal Investigator)

Research Unit for Neuromodulation of Pain & Addictive Behaviors

**Institution:** Neuroscience Research Center, School of Medicine

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

- Chairman, Journal of Medical Library and Information Science (2020 - Present)
- Member of the Iranian Neuroscience Council, Ministry of Health and Medical Education, Islamic Republic of Iran (2019 - Present)
- Member of the Curriculum Review Committee of the Secretariat of Basic Medical

Sciences, Ministry of Health and Medical Education, Islamic Republic of Iran  
**(2019 - Present)**

- Editor in Chief, Journal of Advances in Cognitive Sciences **(2019 - Present)**
- Research Vice-Chancellor, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences **(2019 - Present)**
- Council Member of the Federation of Asian-Oceanian Neuroscience Societies; FAONS **(2016 - Present)**
- Associate member of the Academy of Medical Sciences Islamic Republic of Iran, Department of *NBICS* **(2016 - Present)**
- Secretary of the Iran-Brazil Collaboration Desk in the Cognitive Sciences and Technologies Council (CSTC), Iranian Science and Technology Vice-Presidency, Islamic Republic of Iran **(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, Islamic Republic of Iran **(2013 - Present)**
- Council Member of the Iranian Pain Society; IASP Chapter **(2013 - 2017)**
- Secretary-General of the Iranian Neuroscience Society; INSS **(2013 - Present)**
- Research Vice-Chancellor, Neuroscience Research Center, Shahid Beheshti

University of Medical Sciences (2011 - 2014)

- 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 *Journal of Cellular and Molecular Anesthesia* (2015 - Present)
- Editorial Board Member of the *Pajouhan Scientific Journal* (2015 - 2017)
- Secretary of the Cognitive Neuroscience Committee of the Cognitive Sciences and Technologies Council (CSTC), Iranian Science and Technology Vice-Presidency, Islamic Republic of Iran (2014 - 2017)
- Editorial Board Member of the *Itch & Pain* journal (2014 - 2017)
- Editorial Advisory Board Member of the *Anesthesiology and Pain Medicine* journal (2014 - Present)
- 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 - 2017)
- 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 - 2015)*

### **Academic - Executive experiences**

- Scientific Committee member of the 4<sup>th</sup> East Mediterranean Congress of Laboratory Animal Science, Istanbul, Turkey, 4-6 June 2020.
- Scientific and Executive Committee member of the 13<sup>th</sup> Annual International Addiction Science Congress, Tehran, Iran, 21-23 August 2019.
- Secretary of the 1<sup>st</sup> Joint INSF-CAS Workshop; Addiction science: From Basic to Translational Research, Tehran-Iran, 18-20 August 2019.
- Scientific Committee member of the 8<sup>th</sup> Annual International Addiction Science Congress, Tehran, Iran, 21-23 August 2019.
- Scientific Committee member of the 7<sup>th</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 12-14 December 2018.
- Chair Deputy of the 6<sup>th</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 20-22 December 2017.
- Scientific Committee member of the 6<sup>th</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 20-22 December 2017.
- Scientific Committee member of the 11<sup>th</sup> Annual International Addiction Science Congress, Tehran, Iran, 13-15 September 2017.
- Executive secretary of the 1<sup>st</sup> Iranian IBRO/APRC School of Cognitive Neuroscience “Human Brain Mapping”, Tehran, Iran, 23 Sep - 4 October 2016.
- Deputy of Executive secretary of the 4<sup>th</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 23-25 December 2015.
- Scientific Committee member of the 4<sup>th</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 23-25 December 2015.
- Executive secretary of the 1<sup>st</sup> IBRO/APRC Iranian Associate School of Cognitive Neuroscience “Functional Human Brain Mapping”, Tehran, Iran, 22-28 May 2015.

- Scientific secretary of the 3<sup>rd</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 29-31 October 2014.
- Executive secretary of the 4<sup>th</sup> Tehran IBRO School of Neuroscience: Basic approaches in neurological diseases, Tehran, Iran, 17-28 October 2014.
- Faculty member and organizer of the 3<sup>rd</sup> Workshop on Introduction to Biostatistics and Data Analysis in Experimental Research, Tehran, Iran, 14 August 2014.
- Faculty member and organizer of the 9<sup>th</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 7 August 2014.
- Faculty member and organizer of the 8<sup>th</sup> 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 2<sup>nd</sup> Workshop on Introduction to Biostatistics and Data Analysis in Experimental Research, Tehran, Iran, 23 January 2014.
- Faculty member and organizer of the 7<sup>th</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 9 January 2014.
- Faculty member and organizer of the 6<sup>th</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 20 December 2013.
- Executive secretary of the 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 18-20 December 2013.
- Scientific Committee member of the 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 18-20 December 2013.
- Invited speaker in Pavilion entitled “Electrophysiology”. 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Tehran-Iran, 18-20 December 2013.
- Faculty member and organizer of the 5<sup>th</sup> Workshop on Introducing the International

Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 5 December 2013.

- Faculty member and organizer of the 1<sup>st</sup> Workshop on Introduction to Biostatistics and Data Analysis in Experimental Research, Tehran, Iran, 28 November 2013.
- Faculty member and organizer of the 3<sup>rd</sup> 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 4<sup>th</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 24 October 2013.
- Scientific Committee member of the 7<sup>th</sup> National Congress on Addiction Science, Tehran, Iran, 11-13 September 2013.
- Faculty member and organizer of the 3<sup>rd</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tabriz, Iran, 25 August 2013.
- Scientific Committee member of the 21<sup>st</sup> 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 1<sup>st</sup> Basic and Clinical Neuroscience Congress, Tehran, Iran, 7-9 November 2012.
- Scientific Committee member of the 6<sup>th</sup> National Congress of Addiction Biology, Tehran, Iran, 20-22 June 2012.
- Faculty member and organizer of the 2<sup>nd</sup> 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 20<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Hamadan, Iran, 10-14 October 2011.

- Scientific Committee member of the 5<sup>th</sup> National Congress of Addiction Biology, Tehran, Iran, 22-24 June 2011.
- Faculty member of the 5<sup>th</sup> Workshop on Electrophysiological Recording Techniques, (*Section: Extracellular single unit recording*) Tehran, Iran, 28-30 May 2011.
- Faculty member of the 2<sup>nd</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 19-20 May 2011.
- Faculty member of the 1<sup>st</sup> Workshop on Introducing the International Neuroscience Societies and Organizations and their funding opportunities, Tehran, Iran, 5-6 March 2011.
- Faculty member of the 2<sup>nd</sup> Workshop on Behavioral Neuroscience (*Section: Fear Conditioning and Self-administration*), Tehran, Iran, 16-17 January 2011.
- Faculty member of the 4<sup>th</sup> 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 3<sup>rd</sup> Workshop on Electrophysiological Recording Techniques, (*Section: Extracellular single unit recording technique*) Tehran, Iran, 20-22 February 2010.
- Scientific Committee member of the 19<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Tehran, Iran, 3-6 November 2009
- Faculty member of the 2<sup>nd</sup> Electrophysiological Techniques Workshop (*Section: Extracellular single unit recording technique*), Tehran, Iran, 9-11 November 1998.
- Faculty member of the 1<sup>st</sup> 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, 18<sup>th</sup>



Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- Recipient of Top Researcher Award (**2013**) in Basic Medical Sciences, 14<sup>th</sup> Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Invited alumnus lecturer (**2011**) at the alumni special symposium, 8<sup>th</sup> IBRO World Congress of Neuroscience, Florence, Italy
- Recipient of Top Researcher Award (**2010**) in Basic Medical Sciences, 11<sup>th</sup> Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Outstanding book translator (**2009**), 10<sup>th</sup> Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Recipient of Top Researcher Award (**2007**) in Basic Medical Sciences, 8<sup>th</sup> Research Festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Recipient of Young investigator award (**2001**) in 15<sup>th</sup> International Congress of Physiology and Pharmacology, Shiraz, Iran
- Recipient of 2<sup>nd</sup> student prize Award (**1999**) in 5<sup>th</sup> 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]. Razavi Y, Shabani R, Mehdizadeh M\*\*, **Haghparast A\***. Neuroprotective effect of chronic administration of cannabidiol during the abstinence period on methamphetamine-induced impairment of recognition memory in the rats. *Behavioural Pharmacology* 2020; doi:10.1097/FBP.0000000000000544.
- [2]. Haghparast A, Matini T, Rezaee L, Rahban M, Tehranchi A\*\*, **Haghparast A\***. Involvement of orexinergic system within the nucleus accumbens in pain modulatory role of the lateral hypothalamus in orofacial pain model. *Neurochemical Research* 2020; doi:10.1007/s11064-020-02957-9.

- [3]. Safari-Sandiani E, Rahimitabar N, Rezaee L, Behnaz M, **Haghparast A\***. The contribution of orexin receptors within the ventral tegmental area to modulation of antinociception induced by chemical stimulation of the lateral hypothalamus in the animal model of orofacial pain in the rats. *Behavioural Pharmacology* 2019; doi:10.1097/FBP.0000000000000531.
- [4]. Ajdary M, Farzan S, Razavi Y, Arabdolatabadi A, **Haghparast A\***. Effects of morphine on serum reproductive hormone levels and the expression of genes involved in fertility-related pathways in male rats. *Iranian Journal of Pharmaceutical Research* 2019; doi:10.22037/ijpr.2019.112119.13544.
- [5]. Hojjatinia S, Aliyari Shoorehdeli M\*, Fatahi Z, Hojjatinia Z, **Haghparast A\*\***. Improvement of the Izhikevich model based on the rat basolateral amygdala and hippocampus neurons, and recognition of their possible firing patterns. *Basic and Clinical Neuroscience* 2019; doi:10.32598/bcn.9.10.435.
- [6]. Shafiei I, Ajdary M, Mashhadiabbas F\*\*, **Haghparast A\***. The Effect of Zinc and Vitamin D Nutrition on Reducing Morphine Side Effects and Development of Dental Anomalies in Rat Newborns. *Basic and Clinical Neuroscience* 2019; doi:10.32598/bcn.9.10.165.
- [7]. Khaleghzadeh-Ahangar H, **Haghparast A\***. Cannabinoid Receptor Modulation Changes the Accumbal Neuronal Responses to Morphine in the Reinstatement of Morphine-induced Conditioned Place Preference. *Addiction Biology* 2019; doi:10.1111/adb.12817.
- [8]. Brojeni MS, Nasserri F, **Haghparast A**, Eliassi A\*. Paraventricular nucleus-microinjected glucose increases food intake in 18 h food-deprived rats: A central regulatory mechanism on serum ghrelin and leptin levels. *European Journal of Pharmacology* 2020; 876:173073.
- [9]. Nazari-Serenjeh F, Jamali S, Rezaee L, Zarrabian S, **Haghparast A\***. D1- but not D2-like dopamine receptor antagonist in the CA1 region of the hippocampus reduced stress-induced reinstatement in extinguished morphine-CPP in the food-deprived rats. *Behavioural Pharmacology* 2020; 31:196-206.
- [10]. Rezaee L, Alizadeh AM, **Haghparast A\***. Role of intra-hippocampal dopamine receptors in the antinociceptive responses induced by chemical stimulation of

- the lateral hypothalamus in animal model of acute pain. *Brain Research* 2020; 1734:146759.
- [11]. Salehi S, Kashfi K, Manaheji H\*\*, **Haghparast A\***. Chemical stimulation of the lateral hypothalamus induces antialloodynic and anti-thermal hyperalgesic effects in animal model of neuropathic pain: Involvement of orexin receptors in the spinal cord. *Brain Research* 2020; 1732:146674.
- [12]. Karimi-Haghighi S, Dargahi L\*\*, **Haghparast A\***. Cannabidiol modulates the expression of neuroinflammatory factors in stress- and drug-induced reinstatement of methamphetamine in extinguished rats. *Addiction Biology* 2020; 25:e12740.
- [13]. Fatahi Z, Zeinaddini-Meymand A, Karimi-Haghighi S, Moradi M, Khodagholi F, **Haghparast A\***. Naloxone-precipitated withdrawal ameliorates impairment of cost-benefit decision making in morphine-treated rats: involvement of BDNF, p-GSK3- $\beta$ , and p-CREB in the amygdala. *Neurobiology of Learning and Memory* 2020; 167:107138.
- [14]. Zarrabian S, Riahi E, Karimi S, Razavi Y, **Haghparast A\***. The potential role of the orexin reward system in future treatments for opioid drug abuse. *Brain Research* 2020; 1731:146028.
- [15]. Moghaddasi M, Aliyari Shoorehdelia M\*, Fatahi Z, **Haghparast A\***. Unsupervised automatic online spike sorting using reward-based online clustering. *Biomedical Signal Processing and Control* 2020; 56:101701.
- [16]. Shirazy M, RayatSanati K, Jamali S, Motamedi F, **Haghparast A\***. Role of orexinergic receptors in the dentate gyrus of the hippocampus in the acquisition and expression of morphine-induced conditioned place preference in rats. *Behavioural Brain Research* 2020; 379:112349.
- [17]. Namvar P, Zarrabian S\*\*, Nazari-Serenjeh F, Sadeghzadeh F, **Haghparast A\***. Involvement of D1- and D2-like dopamine receptors within the rat nucleus accumbens in the maintenance of morphine rewarding properties in the rats. *Behavioral Neuroscience* 2019; 133:556-62.
- [18]. Norozpour Y, Zarrabian S\*\*, Rezaee L, **Haghparast A\***. D1- and D2-like

- receptors in the dentate gyrus region of the hippocampus are involved in the reinstatement induced by a sub-threshold dose of morphine and forced swim stress in extinguished morphine-CPP in rats. *Behavioral Neuroscience* 2019; 133:545-55.
- [19]. Arezoomandan R, Aliaghaei A, Khodaghohi F, **Haghparsat A\***. Minocycline induces the expression of intra-accumbal glutamate transporter-1 in the morphine-dependent rats. *Asian Journal of Psychiatry* 2019; 46:70-3.
- [20]. Riyahi J, Abdoli B\*\*, **Haghparsat A\***, Petrosini L. Intergenerational Effect of Parental Spatial training on offspring learning: Evidence for sex differences in memory function. *Brain Research Bulletin* 2019; 153:314-23.
- [21]. Pourhamzeh M, Mozafari R, Jamali S, Motamedi F, Ahadi R\*\*, Haghparsat A\*. Involvement of orexin receptors within the hippocampal dentate gyrus in morphine-induced reinstatement in food-deprived rats. *Behavioural Brain Research* 2019; 375:112155.
- [22]. Assar N, Mahmoudi D, Mousavi Z, Zarrabian S\*\*, **Haghparsat A\***. Role of orexin-1 and -2 receptors within the nucleus accumbens in the acquisition of sensitization to morphine in rats. *Behavioural Brain Research* 2019; 373: 112090.
- [23]. Rezaee L, Manaheji H, **Haghparsat A\***. Role of spinal glial cells in excitability of wide dynamic range neurons and the development of neuropathic pain with the L5 spinal nerve transection in the rats: Behavioral and electrophysiological study. *Physiology & Behavior* 2019; 209:112597.
- [24]. Brojeni MS, Rashvand M, **Haghparsat A\***. Role of orexin receptors within the dentate gyrus of the hippocampus in antinociception induced by chemical stimulation of the lateral hypothalamus in the tail-flick test as a model of acute pain in rats. *Physiology & Behavior* 2019; 209:112595.
- [25]. 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; 10(4):373-81.

- [26]. 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.
- [27]. 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.
- [28]. 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.
- [29]. 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.
- [30]. 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.
- [31]. Azizbeigi R\*, **Haghparsat 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.
- [32]. Karimi S, Hamidi G\*\*, Fatahi Z, **Haghparsat 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.
- [33]. Farzinpour Z, Taslimi Z, Azizbeigi R, Karimi-Haghighi S, **Haghparsat 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.

- [34]. 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.
- [35]. 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.
- [36]. Brojeni MS, 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.
- [37]. 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.
- [38]. 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.
- [39]. 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.
- [40]. 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.
- [41]. 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.

- [42]. Kermani M\*, Fatahi Z\*, Sun D, **Haghparsat 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.
- [43]. Farahimanesh S, Moradi M, Nazari-Serenjeh F, Zarrabian S, **Haghparsat 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. *Behavioural Pharmacology* 2018; 29: 426-36.
- [44]. Baharlouei N, Sarihi A, Moradi M, Zarrabian S, **Haghparsat 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. *Behavioural Pharmacology* 2018; 29:385-92.
- [45]. Edalat P, Kavianpour M, Zarrabian S, **Haghparsat 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.
- [46]. Rezaei R, Nasoohi S, **Haghparsat A**, Khodaghali F, Bigdeli MR, Nourshahi M. High intensity exercise preconditioning provides differential protection against brain injury following experimental stroke. *Life Sciences* 2018; 270:30-5.
- [47]. 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.
- [48]. 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.
- [49]. 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.
- [50]. Taslimi Z, Sarihi A, **Haghpour 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.
- [51]. Vatankhah M, Sarihi A\*, Komaki A, Shahidi S, **Haghpour 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.
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## List of Publications

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

- [14]. Morphine tolerance in the nucleus paragigantocellularis: Single unit recording study in vivo. **Haghparast A\***, Semnanian S, Fathollahi Y. *Pathophysiology* 5 (1) Suppl., 3<sup>rd</sup> International Congress of Pathophysiology, Lahti, Finland, June 28-July 03, 1998, Page 166
- [15]. Responsiveness of the nucleus reticularis paragigantocellularis neurons to the formalin as a peripheral noxious stimulus. Semnanian S\*, Gheibi N, Fathollahi Y, **Haghparast A**. *Pathophysiology* 5 (1) Suppl., 3<sup>rd</sup> International Congress of Pathophysiology, Lahti, Finland, June 28-July 03, 1998, Page 199

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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.*
- [2]. **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.
- [3]. **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

- [4]. *Brain Facts (2<sup>nd</sup> Edition; 2018), A primer on the brain and nervous system,* Society for Neuroscience (SfN). Translated by Reza Panahi, Behnam Soor, Ali Shahbazi and **Abbas Haghparast\***, *Ensan Publishing Co.*, Tehran, Iran; 2019.
- [5]. *Introduction to Cognitive Neuroscience (2012), Liro P Jääskeläinen.* Translated by Shahram Zarrabian, Mohammad Nasehi and **Abbas Haghparast\***, *Ensan Publishing Co.*, Tehran, Iran; 2018.

- [6]. Brain Facts (1<sup>st</sup> Edition; 2012), A primer on the brain and nervous system, Society for Neuroscience (SfN). Translated by **Abbas Haghparast\***, Hossein Mostafavi, Ali Shahbazi, Shahnaz Parsania, Reza Panahi and Amir Rezvani, *Mehrsa Publishing Co.*, Tehran, Iran; 2018.
- [7]. Ross & Wilson Anatomy and Physiology in Health and Illness. 10<sup>th</sup> Ed., Anne Waugh and Alison Grant. Translated by **Abbas Haghparast\***, *Jamenegar & Salemi Publishing Co.*, Tehran, Iran; 2006.
- [8]. Guyton & Hall Physiology Review. John Edward Hall. Translated by **Abbas Haghparast\***, *Jamenegar & Salemi Publishing Co.*, Tehran, Iran; 2006.
- [9]. First Aid and Cardiopulmonary resuscitation. 4<sup>th</sup> Ed., Alton Thygeson and Benjamin Gulli. Translated by **Abbas Haghparast\*** and Reza Mirzaee, *Jamenegar & Salemi Publishing Co.*, Tehran, Iran; 2005.

### **Oral and Poster Presentations (Selected Abstracts)**

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

- Orexinergic System and Reward-related Behaviors (Oral Presentation). **Abbas Haghparast\***, 3<sup>rd</sup> International and 24<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Tehran-Iran, 30 October - 1 November 2019.
- Involvement of orexinergic and dopaminergic receptors within the dentate gyrus of the hippocampus in stress-induced reinstatement of morphine in food-deprived rats (Poster Presentation). **Abbas Haghparast\***, Mahsa Pourhamzeh, Roghayeh Mozafari, Shole Jamali, Reza Ahadi. 10<sup>th</sup> IBRO World Congress, Daegu-South Korea, IBRO Reports Supplement 6, S67, 21-25 September 2019.
- Basic Research to study involvement of orexinergic system in addiction (Oral Presentation). **Abbas Haghparast\***, 1<sup>st</sup> INSF-CAS Joint Workshop; Addiction Science: From Basic to Translational Research, Tehran-Iran, 18-20 August 2019.
- Stress, Cognition and Addictive Behaviors (Oral Presentation). **Abbas Haghparast\***, FENS Regional Meeting, Belgrade-Serbia, 10-13 July 2019.

- Brain Orexinergic System and Reward-related Behaviors (Oral Presentation). **Abbas Haghparast\***, 9<sup>th</sup> FAOPS Congress, Kobe-Japan, 28-31 March 2019.
- Application of Optogenetic in Neural Network Studies (Reward System) (Oral Presentation). **Abbas Haghparast\***, 2<sup>nd</sup> International and 23<sup>rd</sup> Iranian Congress and Congress of Physiology and Pharmacology, Chabahaar-Iran, 15-18 February 2018.
- Brain Orexinergic System (Oral Presentation). **Abbas Haghparast\***, 10<sup>th</sup> International Addiction Science Congress, Tehran-Iran, 14-16 September 2016.
- The Introduction to Stereology for Neuroscientists. **Abbas Haghparast**, Shahid Beheshti University of Medical School, Tehran-Iran, 17-18 May 2016.
- Orexinergic system and Pain (Oral Presentation). **Abbas Haghparast\***, 4<sup>th</sup> 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\***. 33<sup>rd</sup> 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\***. 33<sup>rd</sup> 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. 45<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Chicago-USA, 17-21 October 2015.
- Brain Orexinergic System, Cognition and Addictive Behaviors (Oral Presentation). **Abbas Haghparast\***. The 6<sup>th</sup> FAONS Congress and 11<sup>th</sup> Biennial Conference of CNS, WuZhen-China, 20-23 September 2015.

- Functional interaction between Brain Orexinergic and Mesolimbic Systems in Reward-related Behaviors (Oral Presentation). **Abbas Haghparast\***, 1<sup>st</sup> International and 22<sup>nd</sup> 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. 28<sup>th</sup> 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. 9<sup>th</sup> 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. 32<sup>nd</sup> Annual Conference of Indian Academy of Neuroscience, Bengaluru-India, 1-3 November 2014.
- Role of intra-accumbal D1-Link dopamine receptors in antinociception induced by administration of orexin A into the ventral tegmental area (Poster presentation). **Abbas Haghparast\***, 15<sup>th</sup> World Congress on Pain, Buenos Aires-Argentina, 6-11 October 2014.
- Administration of orexin A into the ventral tegmental area (Poster presentation). Marzieh Moradi, Amir Haghparast, Saeid Yazdi-Ravandi, **Abbas Haghparast\***. 15<sup>th</sup> World Congress on Pain, Buenos Aires-Argentina, 6-11 October 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. 16<sup>th</sup> International Neuroscience Winter Conference, Sölden-Austria, 8-12 April 2014.
- Blocking D2 receptors in the nucleus accumbens attenuates cannabinoid agonist-induced antinociception in the basolateral amygdala (Poster presentation).

**Haghparsat A\***, Ghalandari-Shamani M, Yazdi-Ravandi S, Hassanpour-Ezatti M.  
8<sup>th</sup> FENS Forum of Neuroscience, Barcelona-Spain, 14-18 July 2012.

- Intra-accumbal administration of AP5, NMDA receptor antagonist, attenuates analgesia induced by cannabinoid receptor agonist (WIN 55,212-2) microinjection into the basolateral amygdala in tail-flick test (Poster presentation). **Haghparsat A\***, Ghalandari-Shamani M, Hassanpour-Ezatti M. 41<sup>st</sup> Annual Meeting of Society for Neuroscience (SfN), Washington-USA, 12-16 November 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. 8<sup>th</sup> IBRO World Congress of Neuroscience, Florence-Italy, 14-18 July 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). **Taslami Z**, Ramin M, Azizi P, Khodaghali F, Safari MS, Hassanpour-Ezatti M, **Haghparsat A\***. 5<sup>th</sup> 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\***. 5<sup>th</sup> 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. 40<sup>th</sup> 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). **Abbas Haghparsat\***, Mirshahram Safari, Saeed Semnianian, Abolhassan Ahmadiani. 7<sup>th</sup> FENS Forum of Neuroscience, Amsterdam-Netherlands, 3-7 July 2010.
- Study the effects of cannabinoid receptor agonist and endocannabinoid breakdown inhibitor on Anxiety in male rat (Poster Presentation). **Alireza Komaki**, Siamak Shahidi, Abdolrahman Sarihi, Parisa Hasanein, Sayed Mohammad Malakouti,

**Abbas Haghparast\***. 7<sup>th</sup> FENS Forum of European Neuroscience, Amsterdam-Netherlands, 3-7 July 2010.

- The effect of nucleus locus coeruleus inactivation on antinociception induced by lateral hypothalamus inactivation (Poster Presentation). Mirshahram Safari, **Abbas Haghparast\***, Saeed Semnani, Abolhassan Ahmadiani. 7<sup>th</sup> FENS Forum of European Neuroscience, Amsterdam-Netherlands, 3-7 July 2010.
- Effects of reversible inactivation of the ventral tegmental area on the expression of morphine-induced conditioned place preference in the rat (Poster Presentation). Mahsa Moaddab, Pegah Azizi, Majid Hassanpour-Ezatti, **Abbas Haghparast\***, 19<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Tehran-Iran, 3-6 November 2009.
- Nicotine and morphine interactions; new protocol for morphine dependency in mice (Poster Presentation). Abbas Khani, **Abbas Haghparast\***, Nima Naderi, Amir-Mohammad Alizadeh, Fereshteh Motamedi, 19<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Tehran-Iran, 3-6 November 2009.
- Electrolytic lesion of dorsolateral periaqueductal gray matter attenuates analgesic response of morphine microinjected into the nucleus cuneiformis (Poster presentation). Leila Ahmad-Molaei, **Abbas Haghparast\***. 32<sup>nd</sup> 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\***. 31<sup>st</sup> 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. 30<sup>th</sup> 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. 7<sup>th</sup> 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. 4<sup>th</sup> 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. 6<sup>th</sup> IBRO World Congress of Neuroscience, Prague-Czech Republic, 10-15 July 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. 5<sup>th</sup> 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 Semnianian S. 10<sup>th</sup> 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). **Haghparast A\*** and Pakdaman L. 3<sup>rd</sup> 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. 4<sup>th</sup> International Congress of Pathophysiology, Budapest-Hungary, June 29 - July 05, 2002.
- 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. 34<sup>th</sup> 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. 6<sup>th</sup> 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\***. 1<sup>st</sup> 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. 9<sup>th</sup> 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. 33<sup>rd</sup> 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\*. 1<sup>st</sup> FAONS Congress & 1<sup>st</sup> IBRO Regional Congress, Pattaya-Thailand, 20-23 October 1996.
- The effects of SO<sub>2</sub> gas on some of the lung capacities of Sarcheshmeh inhabitants in Kerman (Oral presentation). **Haghparast A**, Sanadgol H\*, Sepehri GR. 12<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran-Iran, 6-9 November 1995.
- The effects of SO<sub>2</sub> gas in systolic and diastolic blood pressure of Sarcheshmeh inhabitants in Kerman (Poster presentation). Sanadgol H\*, Sepehri GR, **Haghparast A**. 11<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tabriz-Iran, 17-20 May 1993.

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### **National Research Projects (Grants)**

- Role of D1- and D2-like dopamine receptors in the dorsal hippocampus (CA1 region) in the antinociception induced by chemical stimulation of the lateral hypothalamus in animal model of persistent inflammatory pain. **Abbas Haghparast\*** and Masoud Zakeri. Grant No. 977171 (\$6600) by the National

Institutes for Medical Research Development (*NIMAD*), Ministry of Health and Medical Education of Iran, 19 January 2019.

- 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 acute pain (Tail-Flick test). **Abbas Haghparast\*** and Masoud Shareghi Brojeni. Grant No. 971315 (\$6600) by the National Institutes for Medical Research Development (*NIMAD*), Ministry of Health and Medical Education of Iran, 30 June 2018.
- Effect of chemical stimulation of the lateral hypothalamus 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 its 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 cannabinoid 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 Khodaghali, **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 Khodaghali, Shabnam Zeighamy Alamdari. Grant No. 91003540 (\$10000) by Iran National Science Foundation (*INSF*), 16 January 2013.

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## Direction of Dissertation/Thesis

### MSc and PhD Supervisor

- [1]. Role of orexinergic receptors within the ventral tegmental area in the development of morphine sensitization induced by forced swim and restraint stresses in the rat. **Sajad Mazaheri** (PhD) Thesis in progress
- [2]. Role of orexinergic receptors within the ventral tegmental area in stress-induced antinociceptive responses in the acute pain model in the rat. **Kobra Askari** (PhD) Thesis in progress
- [3]. The effect of N-acetylcysteine in extinction and reinstatement of morphine in conditioned place preference paradigm in rat: study of electrical activity of nucleus accumbens. **Najmeh Katebi** (PhD) Thesis in progress
- [4]. The possible role of D2-like dopamine receptor in the dorsal hippocampus (CA1 region) in the effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat. **Amir Arash Hassanloo** (PharmD) Thesis in progress
- [5]. The possible role of D1-like dopamine receptor in the dorsal hippocampus (CA1 region) in the effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat. **Kiana Nouri** (PharmD) Thesis in progress
- [6]. Effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat. **Mahsa Anoshe** (PharmD) Thesis in progress
- [7]. 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
- [8]. 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
- [9]. 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

- [10]. Effects of cannabidiol on morphine and methylphenidate-induced conditioned place preference during extinction/reinstatement in animals model. **Adel Khasefi** (PhD) January 2020
- [11]. Effect of spatial memory learning and parental gender on neuroplasticity and BDNF expression in the next generation. **Javad Riyahi Farsani** (PhD) January 2020
- [12]. 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) September 2019
- [13]. Effects of Cannabidiol on methamphetamine-induced reinstatement in paradoxical sleep-deprived rats: behavioral, molecular & electrophysiological study. **Saeideh Karimi-Haghighi** (PhD) February 2019
- [14]. 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
- [15]. 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
- [16]. 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
- [17]. 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

- [18]. 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
- [19]. Effects of Forced Swim and Restraint Stresses on deconvolution of morphine sensitization: involvement of dopamine D1/D2 receptors in the nucleus accumbens. **Elham Charmchi** (PhD) September 2016
- [20]. 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
- [21]. 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
- [22]. Role of dopaminergic receptors in the nucleus accumbens in physical stress-induced reinstatement of morphine seeking in rat. **Zahra Farzinpour** (MSc) May 2016
- [23]. 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
- [24]. 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
- [25]. 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
- [26]. 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

- [27]. 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
- [28]. Study of methamphetamine-induced reward in the Streptozocin-diabetic rat: A behavioral, electrophysiological and immunohistochemical study. **Amir-Hossein Bayat** (PhD) June 2015
- [29]. 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
- [30]. 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
- [31]. 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
- [32]. 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
- [33]. The effect of insulin on acquisition and expression of morphine-induced conditioned place preference in diabetic rat. **Rezvan Hassanpour** (PharmD) July 2014
- [34]. The effect of insulin on extinction and reinstatement to morphine in the streptozotocin-induced diabetic rats. **Atieh Chizari** (PharmD) July 2014
- [35]. 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
- [36]. 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

- [37]. 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
- [38]. 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
- [39]. Changes in apoptotic factors in the ventral tegmental area and hippocampus after extinction and reinstatement to morphine in rat. **Yasaman Razavi** (MSc) September 2012
- [40]. Study of apoptosis in the nucleus accumbens and prefrontal cortex in morphine-treated rat. **Seyedeh Najmeh Katebi** (MSc) September 2012
- [41]. 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
- [42]. 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
- [43]. 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
- [44]. 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
- [45]. 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
- [46]. 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



- [47]. 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 duration of extinction period and reinstatement of methamphetamine-induced conditioned place preference in the Rat: possible involvement of dopaminergic receptors in the nucleus accumbens. **Mahboubeh Mirmohammadi** (MSc) Thesis in progress
- [2]. Effects of cannabidiol on the acquisition of METH-induced conditioned place preference in the rat: Possible involvement of dopaminergic receptors in the nucleus accumbens. **Asrin Sharifi** (MSc) Thesis in progress
- [3]. The effect of dopaminergic input on clock genes expression and electrical activity in adult superchiasmatic nucleus rats. **Somayeh Mesgar** (PhD) Thesis in progress
- [4]. The effect of pain on the coordination variability and learning of Darts throwing Skill. **Hassan Arieih** (PhD) Thesis in progress
- [5]. Effect of Resistance Training on Cognitive Functions in Heroin Dependence Men. **Hanieh Soltani** (PhD) 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) January 2020
- [9]. Considering the reciprocal relationship between VTA- and PVN-D1 receptors in

- food intake regulation of 18 hours food-deprived male rats. **Farzaneh Saebi Rad** (MSc) January 2020
- [10]. Effectiveness of Intervention Mindfulness-Based Stress Reduction on Anxiety, Attention and Quality of Life in Patients with Relapsing-Remitting Multiple Sclerosis. **Yalda Rahnamaei** (MSc) September 2019
- [11]. 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. **Roghaye Mozafari** (MSc) August 2019
- [12]. 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 Brojeni** (MSc) January 2019
- [13]. Effect of high intensity interval training preconditioning on BDNF and some miRNAs in hippocampus of depressed male Wistar rats. **Ayyub Babaei** (PhD) January 2019
- [14]. Design and implementation of oscillation phase control system in closed-loop optogenetics stimulation. **Ahmad Ghorbani** (MSc) January 2019
- [15]. 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
- [16]. Behavioral pattern recognition for rat based on LFP data and cross-correlation methods. **Elham Najafiani** (MSc) February 2018
- [17]. 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
- [18]. 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

- [19]. 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
- [20]. 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
- [21]. Effect of eight-week aerobic continuous and high intensity interval training on levels of Sirt3 and PGC1 $\alpha$  in male wistar rat's skeletal muscle tissue. **Iman Fathi** (PhD) December 2016
- [22]. 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
- [23]. 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
- [24]. 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
- [25]. Improvement of the Izhikevich model based on rat brain neuron real data. **Sahar Hojjatinia** (MSc) September 2015
- [26]. Effectiveness of Gestalt group therapy in patients' quality of life with chronic pain. **Mina Zarineh** (MSc) February 2015
- [27]. 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
- [28]. Evaluation of the role of GABA<sub>A</sub> 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

- [29]. 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
- [30]. Comparison of self-efficacy and personality traits in patients with chronic pain and healthy individuals. **Laleh Amir-Soleimani** (MSc) June 2012
- [31]. The role of resilience, intensity and duration of pain on quality of life of patients with pain disorder. **Saeid Yazdi-Ravandi** (MSc) March 2012
- [32]. The interaction between orexin and cannabinoid systems in locus coeruleus on pain modulation. **Mir-Shahram Safari** (PhD) September 2010
- [33]. Considering the effect of D1 and D2 like dopaminergic receptors on food behavior in 24 hours food deprived rat. **Shiva Bakhshi** (MSc) February 2010
- [34]. The study of the neuroprotective effects of curcumin against homocysteine-induced oxidative stress in the rat's brain. **Amin Ataie** (PhD) January 2010
- [35]. 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
- [36]. Comparison of antinociception induced by subcutaneous administration of lidocaine in morphine dependent and independent rat. **Maryam Taieban** (MD) March 2003
- [37]. The effect of inactivation of cuneiformis nucleus by lidocaine microinjection on opioid antinociception response in rat. **Mohammad-Naser Shafei** (MSc) May 2001
- [38]. The role of GABA<sub>A</sub> receptor inhibitor on morphine antinociceptive action in cuneiformis. **Hamid Sheikhanlouyeh 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 Advances in Cognitive Sciences
- 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**