CURRICULUM VITAE

Name: **Abbas**

Family name: **Haghparast**

Title: **Professor**

Date of Birth: **06-11-1967**

Place of birth: **Karbala-Iraq**

Nationality: **Iranian**

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Education and Fellowships

Shahid Bahonar University Department of Biology Kerman-Iran	B.Sc. in Biology	1986 - 1990
Kerman University of Medical Sciences Department of Physiology Kerman-Iran	M.Sc. in Physiology	1990 - 1993
Tarbiat Modarres University, School of Medical Science Tehran-Iran	Ph.D. in Physiology	1995 - 1999
University of Saskatchewan, Institute of Physiology Saskatoon-Canada	Postdoctoral Fellow	1999 - 2000
Institute of Psychology, CAS Chinese Academy of Sciences Beijing-China	Visiting Scientist	03-08/2023

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 Promotions

Adjunct Professor	2021 - Present
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 Activities

- Vice President of the Iranian Neuroscience Society; INSS **(August 2022 - July 2025)**
- Council member of the IBRO Asian-Pacific Regional Committee, *APRC* **(January 2022 - December 2024)**
- Secretary-General of the Council of Addiction Science and Drug of Abuse Studies, Ministry of Health and Medical Education, Islamic Republic of Iran **(July 2022 - July 2023)**
- Adjunct Professor, School of Cognitive Sciences, Institute for Research in Fundamental Sciences **(2021 - Present)**
- Associate Member of the *Basic Sciences* Department in Iranian Academy of Medical Sciences **(2021 - Present)**
- Editorial Board Member of the *Addiction Neuroscience* **(2021 - Present)**
- Neuroscience and Addiction Section Editor of the *Current Addiction Reports* **(2020 - Present)**
- Editorial Board Member of the *Jundishapur Journal of Physiology* **(2020 - Present)**
- Chairman, Journal of Medical Library and Information Science **(2020 - Present)**
- Council Member of the Addiction Science and Drug of Abuse Studies, Ministry of Health and Medical Education, Islamic Republic of Iran **(2020 - 2022)**
- Council Member of the Iranian Neuroscience, Ministry of Health and Medical Education, Islamic Republic of Iran **(2019 - 2020)**
- 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 *NBICS* Department in Iranian Academy of Medical Sciences **(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/Administrative Activities

- Deputy Chairman of the 11th Basic and Clinical Neuroscience Congress, Tehran,

Iran, 13-14 February 2023.

- Deputy Chairman of the 10th Basic and Clinical Neuroscience Congress, Tehran, Iran, 22-24 December 2021.

- Scientific Committee member of the 4th East Mediterranean Congress of Laboratory Animal Science, Istanbul, Turkey, *Postponed* to 2021.

- Deputy Chairman of the 9th Basic and Clinical Neuroscience Congress, Tehran, Iran, 9-11 December 2020.

- Scientific and Executive Committee member of the 13th Annual International Addiction Science Congress, Tehran, Iran, 21-23 August 2019.

- Secretary of the 1st Joint INSF-CAS Workshop; Addiction Science: From Basic to Translational Research, Tehran-Iran, 18-20 August 2019.

- Scientific Committee member of the 8th Annual International Addiction Science Congress, Tehran, Iran, 21-23 August 2019.

- Scientific Committee member of the 7th Basic and Clinical Neuroscience Congress, Tehran, Iran, 12-14 December 2018.

- Deputy Chairman of the 6th Basic and Clinical Neuroscience Congress, Tehran, Iran, 20-22 December 2017.

- Scientific Committee member of the 6th 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.

- Executive secretary of the 1st Iranian IBRO/APRC School of Cognitive Neuroscience “Human Brain Mapping”, Tehran, Iran, 23 Sep - 4 October 2016.

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

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

- 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.

- 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.

- Executive secretary of the 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.

- Invited speaker in Pavilion entitled “Electrophysiology”. 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.

Honors and Awards

- Selected as IBRO Asian Pacific Regional Committee (APRC) council member for a period of three years **(January 2022)**
- Awarded of *Chinese Academy of Sciences* (CAS) President's International Fellowship Initiative (PIFI) for Distinguished Scientists **(August 2021)**
- Adjunct Professor, School of Cognitive Sciences, Institute for Research in Fundamental Sciences **(June 2021)**
- ESI Web of Science Top 1% Researcher over the World **(May 2021)**
- Recipient of Top Researcher Award **(2017)** in Basic Medical Sciences, 18th 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]. Mohammadi M, Eskandari K, Azizbeigi R*, **Haghparast A****. The inhibitory effect of cannabidiol on the rewarding properties of methamphetamine in part mediates by interacting with the hippocampal D1-like dopamine receptors. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2023; Online First*.

[2]. Modaberi S, Amirteymori H, Mesgar S, Eskandari K, **Haghparast A***. The blockade of orexin receptors within the dentate gyrus of the hippocampus attenuated methamphetamine-induced reward learning during conditioning place preference. *Pharmacology, Biochemistry and Behavior 2023; Online First*.

[3]. Alizamini MM, Fattahi M, Sayehmiri F, **Haghparast A****, Liang J*. Regulatory role of PFC corticotropin-releasing factor system in stress-associated depression disorders: A systematic review. *Cellular and Molecular Neurobiology 2022; https://doi.org/10.1007/s10571-022-01289-2; Online First*. *Systematic Review*

[4]. Mirmohammadi M, Eskandari K, Koruji M, Shabani R, Ahadi A**, **Haghparast A***. Intra-accumbal D1- but not D2-like dopamine receptor antagonism reverses the inhibitory effects of cannabidiol on extinction and reinstatement of methamphetamine seeking behavior in rats. *Cannabis and Cannabinoid Research 2022; https://doi.org/10.1089/can.2022.0017; Online First*.

[5]. Karimi-haghighi S, Mahmoudi M, Sayehmiri F, Mozafari R, **Haghparast A***. Endocannabinoid System as a Therapeutic Target for Psychostimulants relapse: A Systematic Review of Preclinical Studies. *European Journal of Pharmacology 2023; 175669*. *Systematic Review*

[6]. Eskandari K, Fattahi M, Yazdanian H, **Haghparast A***. Is deep brain stimulation an effective treatment for psychostimulant dependency? A preclinical and clinical systematic review. *Neurochemical Research 2023; 48:1255-68*. *Systematic Review*

[7]. Fattahi M, Eskandari K, Riahi E, Khosrowabadi R, **Haghparast A***. Distinct suppressing effects of deep brain stimulation in the orbitofrontal cortex on the development, extinction, and reinstatement of methamphetamine-seeking

behaviors. *Life Sciences 2023; 322:121613*.

[8]. Noursadeghi E, **Haghparast A***. Modulatory role of intra-accumbal dopamine receptors in the restraint stress-induced antinociceptive responses. *Brain Research Bulletin 2023; 195:172-9*.

[9]. Fatahi Z, Fatahi M, Alizamini MM, Ghorbani A, Zibaii MI, **Haghparast A***. Exogenous cannabinoids impair effort-related decision-making via affecting neural synchronization between the anterior cingulate cortex and nucleus accumbens. *Brain Sciences 2023; 13(3):413*.

[10]. Veisi A, Khaleghzadeh-Ahangar H, Fattahi M, **Haghparast A***. The role of orexin-1 receptors within the hippocampal CA1 area in the extinction and reinstatement of methamphetamine-seeking behaviors. *Neurochemical Research 2023; 48:671-80*.

[11]. Karimi-Haghighi S, Chavoshinezhad S, Mozafari R, Noorbakhsh F, Borhani-Haghighi A, **Haghparast A***. Neuroinflammatory response in reward-associated psychostimulants and opioids: A review. *Cellular and Molecular Neurobiology 2023; 43:649-82*. *Narrative Review*

[12]. Eskandari K, Fattahi M, Riahi E, Khosrowabadi R, **Haghparast A***. A wide range of Deep Brain Stimulation of the Nucleus Accumbens shell time independently reduces the extinction period and prevents the reinstatement of Methamphetamine-seeking behavior in rats. *Life Sciences 2023; 319:121503*.

[13]. Mozafari R, Karimi-Haghighi S, Fattahi M, Kalivas P, **Haghparast A***. A review on the role of metabotropic glutamate receptors in neuroplasticity following psychostimulant use disorder. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2023; 124:110735*. *Narrative Review*

[14]. Jamali S, Dezfouli MP, Kalbasi A, Daliri MR**, **Haghparast A***. Selective modulation of hippocampal theta oscillations in response to morphine versus natural reward. *Brain Sciences 2023; 13(2):322*.

[15]. Dezfouli RA, Mazaheri S, Mousavi Z, **Haghparast A***. Restraint stress induced the antinociceptive responses via the dopamine receptors within the hippocampal

CA1 area in animal model of persistent inflammatory pain. *Behavioural Brain Research 2023; 443:114307*.

[16]. Haghparast A, Yousefpour M**, Rashvand M, Ghahari L, Rohani B, **Haghparast A***. Involvement of dopaminergic system in the dentate gyrus of the hippocampus in modulating the orofacial pain-related behaviors in the rats. *Behavioural Pharmacology 2023; 34:45-54*.

[17]. Moteshakereh SM, Nikoohemmat M, Farmani D, Khosrowabadi E, Salehi S**, **Haghparast A***. The stress-induced antinociceptive responses to the persistent inflammatory pain involve the orexin receptors in the nucleus accumbens. *Neuropeptides 2023; 98:102323*.

[18]. Amirteymori H, Veisi A*, Khaleghzadeh-Ahangar H, Mozafari R, **Haghparast A****. Involvement of orexin-2 receptors in the CA1 region of the hippocampus in the extinction and reinstatement of methamphetamine-induced conditioned place preference in the rats. *Peptides 2023; 160:170926*.

[19]. Nazari-Serenjeh F, Azizbeigi R, Rashvand M, Mesgar S, Amirteymori H, **Haghparast A***. Distinct roles for orexin-1 and orexin-2 receptors in the dentate gyrus of the hippocampus in the methamphetamine-seeking behavior in the rats. *Life Sciences 2023; 312:121262*.

[20]. Askari K, Oryan S, Eidi A, Zaringhalam J, **Haghparast A***. Blockade of the orexin receptors in the ventral tegmental area could attenuate the stress-induced analgesia: A behavioral and molecular study. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2023; 120:110639*.

[21]. Amirteymori H, Karimi-Haghighi S, Mirmohammadi M, Majidinezhad M, Khosrowabadi E, **Haghparast A***. Hypocretin/Orexin system in the nucleus accumbens as a promising player in the extinction and reinstatement of methamphetamine-induced CPP. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2023; 120:110616*.

[22]. Hassanpour R, Chizari A, Bayat AH, Azizbeigi R, Mahmoudi M, Mousavi Z**, **Haghparast A***. Insulin replacement prevents the acquisition but not the expression of morphine-induced conditioned place preference in streptozotocin-induced diabetic rats. *Brazilian Journal of Pharmaceutical Sciences 2022;*

58:e201215, 1-10.

[23]. Taslimi Z, Sarihi A, Karimi S, **Haghparast A***. Changes in the electrical activity of prefrontal neurons following methamphetamine-induced conditioned place preference in the rat. *Physiology and Pharmacology 2022; 26:288-98*.

[24]. Zarrabian S, Jamali S, Fazli-Tabaei S*, **Haghparast A****. Dopaminergic and nitric oxide systems interact to regulate the electrical activity of neurons in the medial septal nucleus in rats. *Experimental Brain Research 2022; 240:2581-94*.

[25]. Jamali S, Aliyari Shoorehdeli M , Daliri MR, **Haghparast A***. Differential aspects of natural and morphine reward-related behaviors in conditioned place preference paradigm. *Basic and Clinical Neuroscience 2022; 13(5):731-44*.

[26]. Razavi Y, Najafi M, **Haghparast A**, Keyhanfar F, Shabani R, Mehdizadeh M*. Cannabidiol modulates the expression of neurotrophin signaling pathway in chronic exposure methamphetamine rats during abstinence period. *Basic and Clinical Neuroscience 2022; 13(5):719-29*.

[27]. Dezfouli RA, Merdasi PG, Rashvand M, Mousavi Z, **Haghparast A***. The modulatory role of dopamine receptors within the hippocampal hippocampal cornu ammonis area 1 in stress-induced analgesia in an animal model of persistent inflammatory pain. *Behavioural Pharmacology 2022; 33:492-504*.

[28]. Shakerinava P, Sayarnezhad A, Karimi-Haghighi S, Mesgar S, **Haghparast A***. Antagonism of the orexin receptors in the ventral tegmental area diminished the stress-induced analgesia in persistent inflammatory pain. *Neuropeptides 2022; 96:102291*.

[29]. Riyahi J, Abdoli B, Gelfo F, Petrosini L, Khatami L, Meftahi GH*, **Haghparast A**. Multigenerational effects of paternal spatial training are lasting in the F1 and F2 male offspring. *Behavioural Pharmacology 2022; 33:342-54*.

[30]. Majidinezhad M, Amirteymori H, Karimi-haghighi S, Kourosh-Arami M, **Haghparast A***. Orexin system in the ventral tegmental area is implicated in the rewarding properties of methamphetamine. *European Journal of Pharmacology 2022; 930:175170*.

[31]. Arieh H, Abdoli B*, Farsi AR, **Haghparast A**. Pain-induced Impact on

Movement: Motor Coordination Variability and Accuracy-based Skill. *Basic and Clinical Neuroscience 2022; 13(3):421-31*.

[32]. Karimi S, Zibaii MI, Hamidi GA** , **Haghparast A***. Differential Effects of the Lateral Hypothalamus Lesion as an Origin of Orexin and Blockade of Orexin-1 Receptor in the Orbitofrontal Cortex and Anterior Cingulate Cortex on Their Neuronal Activity. *Basic and Clinical Neuroscience 2022; 13(3):407-20*.

[33]. Fattahi M, Eskandari K, Sayehmiri F, Kuhn J, **Haghparast A***. Deep Brain Stimulation for Opioid Use Disorder: A Systematic Review of Preclinical and Clinical Evidence. *Brain Research Bulletin 2022; 187:39-48. Systematic Review*

[34]. Merdasi PG, Dezfouli RA, Mazaheri S, **Haghparast A***. Blocking the dopaminergic receptors in the hippocampal dentate gyrus reduced the stress-induced analgesia in persistent inflammatory pain in the rat. *Physiology & Behavior 2022; 253:113848*.

[35]. Chizari A, Hassanpour R, Karimi-haghighi S, Azizbeigi R, Mesgar S, Mousavi Z, **Haghparast A***. Compensatory role of insulin in the extinction but not reinstatement of morphine-induced conditioned place preference in the streptozotocin-induced diabetic rats. *Neurochemical Research 2022; 47:1565-73*.

[36]. Mohammadzadeh L, Alizadeh AM, Feiz MS, Jamali S, Abedi M, Latifi H*, **Haghparast A****. Acute morphine administration, morphine dependence, and naloxone-induced withdrawal syndrome affect the resting-state functional connectivity and local field potentials of the rat prefrontal cortex. *Behavioural Brain Research 2022; 427:113859*.

[37]. Noursadeghi E, Rashvand M, **Haghparast A***. Nucleus accumbens dopamine receptors mediate the stress-induced analgesia in an animal model of acute pain. *Brain Research 2022; 1784:147887*.

[38]. Arieh H, Abdoli B**, Farsi AR, **Haghparast A***.Assessment of motor skill accuracy and coordination variability after application of local and remote experimental pain. *Research in Sports Medicine 2022; 30(3):325-41*.

[39]. Mesgar S, Jameie SB, Aliaghaei A*, Parvardeh S, Torabi A, **Haghparast A***.

Dopamine D1 receptor-mediated regulation of Per1, Per2, CLOCK, and BMAL1 expression in the suprachiasmatic nucleus in adult male rats. *Journal of Molecular Neuroscience 2022; 72:618-25*.

[40]. Alizamini MM, Li Y, Zhang JJ, Liang J**, **Haghparast A***. Endocannabinoids and addiction memory: Relevance to Methamphetamine/Morphine Abuse. *The World Journal of Biological Psychiatry 2022; 23(10):743-63. Narrative Review*

[41]. Mazaheri S, Zendehdel M, **Haghparast A***. Role of orexinergic receptors within the ventral tegmental area in the development of morphine sensitization induced by forced swim stress in the rat. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2022; 116:110539*.

[42]. Alizamini MM, Chen X, Nie L, Dai Z, Liu Y, **Haghparast A**, Wue N, Zhang JJ, Shen F, Sui N, Liang J*. Corticotropin-releasing factor receptor 1 in infralimbic cortex 1 modulates social stress-altered decision-making. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2022; 116:110523*.

[43]. Wu C, Zheng W, Jia X, Li Y, Shen F, **Haghparast A**, Liang J, Sui N, Zhang JJ*. Adolescent chronic unpredictable stress causes a bias to goal-directed behavior and distinctively change the expression of NMDA and dopamine receptors in the dorsomedial and dorsolateral striatum in male rats. *Developmental Psychobiology 2022; 64(2):e22235*.

[44]. Ghalebandi S, Zareie F, Askari K, Yuzugulen J, **Haghparast A***. Intra-CA1 injection of orexin receptors antagonism attenuates the stress-induced analgesia in a rat acute pain model. *Behavioural Brain Research 2022; 423:113785*.

[45]. Karimi-Haghighi S, Razavi Y, Iezzi D, Scheyer AF, Manzoni O, **Haghparast A***. Cannabidiol and substance use disorder: dream or reality. *Neuropharmacology 2022; 207:108948. Narrative Review*

[46]. Vaseghi S, Zarrabian S, **Haghparast A***. Reviewing the role of the orexinergic system and stressors in modulating mood and reward-related behaviors. *Neuroscience & Biobehavioral Reviews 2022; 133:104516. Narrative Review*

[47]. Zheng W, Wu C, Du WJ, Li Y, Shen F, **Haghparast A**, Liang J, Sui N, Zhang JJ*. Differential involvement of nucleus tractus solitarius projections and locus

coeruleus projections to the basolateral amygdala in morphine-associated memory destabilization. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2022; 115:110496*.

[48]. Zareie F, Ghalebandi S, Askari A, Mousavi Z, **Haghparast A***. Orexin receptors in the CA1 region of hippocampus modulate the stress-induced antinociceptive responses in an animal model of persistent inflammatory pain. *Peptides 2022; 147:170679*.

[49]. Sharifi A, Karimi-haghighi S, Shabani R, Asgari HR, Ahadi R**, **Haghparast A***. Cannabidiol impairs the rewarding effects of methamphetamine: Involvement of dopaminergic receptors in the nucleus accumbens. *Progress in Neuro-Psychopharmacology & Biological Psychiatry 2022; 113:110458*.

[50]. Ahmad-Molaei L, Pourhamzeh M, Ahadi R, Khodagholi F, Hassanian-Moghaddam H, **Haghparast A***. Time-dependent changes in the serum levels of neurobiochemical factors after acute methadone overdose in adolescent male rat. *Cellular and Molecular Neurobiology 2021; 41:1635-49*.

[51]. Razavi Y, Keyhanfar F, Shabani R, **Haghparast A***, Mehdizadeh M**. Therapeutic effects of cannabidiol on methamphetamine abuse: A review of pre-clinical study. *Iranian Journal of Pharmaceutical Research 2021; 20(4):152-64. Narrative Review*

[52]. Sadeghi M, Manaheji H*, Zaringhalam J, **Haghparast A**, Nazemi S, Bahari Z, Noorbakhsh SM. Evaluation of the GABAA Receptor Expression and the Effects of Muscimol on the Activity of Wide Dynamic Range Neurons Following Chronic Constriction Injury of the Sciatic Nerve in Rats. *Basic and Clinical Neuroscience 2021; 12(5):651-66*.

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Grants – International/National Research Projects

- Evaluating the functional correlation between the neural activities in mesolimbic system involved in morphine-induced conditioned place preference: a comparative study in virtual and real environment. **Abbas Haghparast***, Mohammadreza Abolghasemi, Mina Rasshvand, Ghazaleh Ghamkharnezhad, Hassan Yazdanian. Grant No. 16488 ($3170) by Cognitive Sciences and Technologies Council ***(CSTC)***, Iranian Science and Technology Vice-Presidency, 4 September 2021.

- Investigating the Effect of Sensory Stimulation on Gamma Oscilation, Neuropathological Hallmarks, Neurogenesis, and Cognitive Functions in an Animal Model of Alzheimer's Disease. Afsaneh Asgari Taei, Leila Dargahi*, Hamid Karbalei Aghajan, **Abbas Haghparast.** Grant No. 4000356 ($3380) by Iran National Science Foundation (***INSF***), 31 August 2021.

- 4th Silk Road Science Foundation (SRSF), CAS-Iranian Vice Presidency for Science and Technology Joint Research Project. The functional correlations between neural activity and molecular/signaling changes in the cortical-subcortical areas involved in the morphine-related memory. **Abbas Haghparast**. Grant No. 99007925 ($20180) by Iran National Science Foundation (***INSF***), 28 March 2021.

- 8th Elite Researcher Grant. Role of orexinergic receptors within the nucleus accumbens in forced swim stress-induced antinociceptive responses in the persistent inflammatory pain model in the rats. **Abbas Haghparast*** and Seyyed Mohammad Misagh Moteshakereh. Grant No. 987783 ($6600) by the National Institutes for Medical Research Development **(*NIMAD*)**, Ministry of Health and Medical Education of Iran, 27 April 2020.

- 3rd Silk Road Science Foundation (SRSF), CAS-Iranian Vice Presidency for Science and Technology Joint Research Project. The 2nd Joint INSF-CAS Workshop; Addiction Science: Building the bridge between basic and clinical research, Beijing-China, **Abbas Haghparast** and Amaneh Rezayof*. Grant No. 98011855 ($14500) by Iran National Science Foundation **(*INSF*)**, 18 November 2019.

- 2nd Silk Road Science Foundation (SRSF), CAS-Iranian Vice Presidency for Science and Technology Joint Research Project. The 1st Joint INSF-CAS Workshop; Addiction Science: From Basic to Translational Research, Tehran-Iran, **Abbas Haghparast**. Grant No. 97001394 ($6900) by Iran National Science Foundation **(*INSF*)**, 18 August 2019.

- 6th Elite Researcher Grant. 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.

- 5th Elite Researcher Grant. Role of Orexin receptors in the Dentate Gyrus (DG) of the hippocampus in the antinocicep-tion 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.

- 4th Elite Researcher Grant. 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.

- 1st Silk Road Science Foundation (SRSF), CAS-Iranian Vice Presidency for Science and Technology Joint Research Project. 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.

- 2nd Elite Researcher Grant. 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 Khodagholi. Grant No. 93025021 ($8000) by Iran National Science Foundation **(*INSF*)**, 5 January 2015.

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

- Controlling of neural systems with optogenetics. Hamid Latifi*, Mohammad Ismail Zibaii, **Abbas Haghparast**, Hamid Reza Pouretemad, Leila Dargahi, Fereshteh Motamedi. Grant No. 121 ($78000) by Cognitive Sciences and Technologies Council **(*CSTC*)**, 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**

Book Publications

Books

[1]. Essential Neuroscience (4th Edition; 2019), Allen Seigel and Hreday N Sapru. Translated by Sharareh Farahimanesh, Reza Panahi, **Abbas Haghparast** and Sajad Haghshenas, *University of Social Welfare and Rehabilitation Sciences*

Press, Tehran, Iran; 2022.

[2]. Standard for Hospital Libraries (in *Persian*), **Abbas Haghparast***, Seddigheh Neshati Sani, Farzaneh Fazli, Naser Vazifehshenas, et al., *Shahid Beheshti University of Medical Sciences* Publication, Tehran, Iran; 2022.

[3]. Cognitive Neuroscience, from Approach to Application (in *Persian*), Shahram Zarrabian and **Abbas Haghparast**, *HamoonSoft* Publishing Co., Tehran, Iran; 2021.

[4]. Brain Facts (2nd 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 (1st Edition; 2012), A primer on the brain and nervous system, Society for Neuroscience (SfN). Translated by **Abbas Haghparast***, Hossein Mostafavi, Ali Shahbazi, Shahrnaz Parsania, Reza Panahi and Amir Rezvani, *Mehrsa* Publishing Co., Tehran, Iran; 2018.

[7]. Ross & Wilson Anatomy and Physiology in Health and Illness. 10th Ed., Anne Waugh and Alison Grant. Translated by **Abbas Haghparast***, *Jamenegar & Salemi* Publishing Co., Tehran, Iran; 2006.

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

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

Book Chapters

[10]. **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*.

[11]. **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.

[12]. **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.

Lectures (Invited Speaker)

- *The Role of Orexin System in the Lateral Hypothalamus in Pain Modulation in Animal Models of Pain*. IBRO-APRC Nepal Associate School on Neurophysiology of Pain: Mechanism to Medicine, Nepalgunj Banke-Nepal, 31 August - 5 September 2021.

- *The Role of Brain Orexinergic System in the Reward and Decision-Making processes*. IBRO-APRC Nepal Associate School on Neurophysiology of Pain: Mechanism to Medicine, Nepalgunj Banke-Nepal, 31 August - 5 September 2021.

- *Functional Interactions of the Opioid, Cannabinoid and Orexin systems in Reward*. 2nd INSF-CAS Joint Workshop; Addiction Science: Building the bridge between basic and clinical research, Virtual Meeting, 26-28 August 2021.

- *Basic Research to study involvement of orexinergic system in addiction*. 1st INSF-CAS Joint Workshop; Addiction Science: From Basic to Translational Research, Tehran-Iran, 18-20 August 2019.

- *Stress, Cognition and Addictive Behaviors*. FENS Regional Meeting, Belgrade-Serbia, 10-13 July 2019.

- *Brain Orexinergic System and Reward-related Behaviors*. 9th FAOPS Congress, Kobe-Japan, 28-31 March 2019.

- *Application of Optogenetic in Neural Network Studies*. 2nd International and 23rd Iranian Congress and Congress of Physiology and Pharmacology, Chabahar-Iran, 15-18 February 2018.

- *Brain Orexinergic System*. 10th International Addiction Science Congress, Tehran-Iran, 14-16 September 2016.

- *Orexinergic system and Pain*. 4th Basic and Clinical Neuroscience Congress, Tehran-Iran, 23-25 December 2015.

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

- *Functional interaction between Brain Orexinergic and Mesolimbic Systems in Reward-related Behaviors*. 1st International and 22nd Iranian Congress of Physiology and Pharmacology, Kashan-Iran, 7-11 September 2015.

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

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***, The 3rd International and 24th 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. 10th IBRO World Congress, Daegu-South Korea, IBRO Reports Supplement 6, S67, 21-25 September 2019.

- The Introduction to Stereology for Neuroscientists. **Abbas Haghparast**, Shahid Beheshti University of Medical School, Tehran-Iran, 17-18 May 2016.

- 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.

- 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.

- 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***, 15th 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***. 15th World Congress on Pain, Buenos Aires-Argentina, 6-11 October 2014.

- LH stimulation could potentiate the effect of inefective dose of morphine and induce morphine sensitization (Poster presentation). Sara Karimi, **Abbas Haghparast***, Mahtash Baniardalan, Sara Sadeghi, Alireza Omranifard. 16th International Neuroscience Winter Conference, Sölden-Austria, 8-12 April 2014.

- 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.

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

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

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

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

- Lateral hypothalamus stimulation-induced antinociception is mediated in part by the activation of locus coeruleus neurons (Poster presentation). **Abbas**

Haghparast*, Mirshahram Safari, Saeed Semnanian, Abolhassan Ahmadiani. 7th 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***. 7th 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 Semnanian, Abolhassan Ahmadiani. 7th 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***, 19th 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, 19th 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***. 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.

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

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

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

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

- Effects of local application of cholinergic and anticholinergic drugs onto the

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

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

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

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

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

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

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

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

* **Correspondent**

Direction of Dissertation/Thesis

MSc and PhD Supervisor

[1]. Role of orexinergic receptors within the dorsal hippocampal area in the restraint stress-induced analgesia in the acute pain model in the rats. **Elahe Danesh** (DVM) Thesis in progress

[2]. Role of the orexin system in the dentate gyrus area of hippocampus on pain-related behaviours in an animal model of neuropathic pain. **Matin Baghani** (GP) Thesis in progress

[3]. Effect of lateral hypothalamus chemical stimulation on neuropathic pain-related behaviors in animal model: Role of Orexin-1 receptor in the hippocampal dentate gyrus. **Arad Bolouri-Roudsari** (GP) Thesis in progress

[4]. Role of orexin-2 receptors in the dentate gyrus of the hippocampus on the analgesic responses induced by chemical stimulation of the lateral hypothalamus in an animal model of neuropathic pain. **Farzan Fathalizade** (GP) Thesis in progress

[5]. Effect Analysis of deep brain stimulation on addiction treatment based on Local Field Potential Data recorded from rat's brain by using Machin Learning techniques. **Shayan Bamyar** (MSc) Thesis in progress

[6]. Investigating the effect of cannabidiol on the development of morphine sensitization induced by forced swim and restraint stresses in the rat. **Hadi Semizeh** (PhD) Thesis in progress

[7]. Investigating the functional correlations in neural activities between the nucleus accumbens and hippocampus and changes in STIM1 and STIM2 proteins expression in these regions following the reinstatement of morphine-seeking behavior in the rats: The role of mGlu5 receptor in the nucleus accumbens. **Roghaye Mozafari** (PhD) Thesis in progress

[8]. Investigating the interaction between opioidergic and D1-like dopamine receptors in the nucleus accumbens on pain-related behaviors in tail-flick test as the animal model of acute pain. **Pariya Shahani** (MSc) Thesis in progress

[9]. Study of interaction between Mu opioidergic and D2-like dopaminergic receptors in the dorsal hippocampal area (CA1) on pain-related behaviors in animal model of inflammatory pain. **Arian Daneshpour** (DVM) Thesis in progress

[10]. Functional interaction between D2-like dopamine and opioidergic receptors in the nucleus accumbens on inflammatory pain-related behaviors in the rat: A behavioral and molecular study. **Helia Khodabakhsh** (MSc) Thesis in progress

[11]. Investigating in interaction between D1-like dopamine and opioidergic receptors in the nucleus accumbens on inflammatory pain-related behaviors in the rat: A behavioral and molecular study. **Hedie Abolghasemi** (MSc) Thesis in progress

[12]. Role of orexinergic receptors within the dorsal hippocampal area in the restraint stress-induced analgesia in the acute pain model in the rat. **Elahe Danesh** (DVM) Thesis in progress

[13]. Role of dopaminergic receptors within the ventral tegmental area in the stress-induced antinociceptive responses in the acute pain model in the rats. **Mohammad Saghafi** (PharmD) Thesis in progress

[14]. Investigating the potential therapeutic effects of deep brain stimulation of the orbitofrontal cortex on the acquisition, extinction and reinstatement of methamphetamine seeking behavior in rat: an electrophysiological and neuroimaging study. **Mojdeh Fattahi** (PhD) Thesis in progress

[15]. Investigating possible effects of deep brain stimulation of the nucleus accumbens on neural activity of medial prefrontal cortex and hippocampus using methamphetamine-induced conditioned place preference in the rat. **Kiarash Eskandari** (PhD) Thesis in progress

[16]. Role of orexinergic receptors within the dentate gyrus area of hippocampus in stress-induced antinociceptive responses in the acute pain model in the rat. **Parisa Panahi** (PharmD) Thesis in progress

[17]. The role of corticotropin-releasing factor receptor 1 in stress-modulated GABAergic and glutamatergic presynaptic transmission in the infralimbic cortex. **Mirmohammadali Mirramezani Alizamini** (PhD) Thesis in progress

[18]. Role of orexin-1 and orexin-2 receptors within the ventral tegmental area in duration of the extinction period and reinstatement to methamphetamine in the conditioned place preference paradigm in the rats. **Ferdos Zamanirad** (PharmD) March 2023

[19]. Role of orexin-1 and orexin-2 receptors within the dorsal hippocampus (CA1) in the acquisition and expression of methamphetamine-induced conditioned place preference in the rats. **Fazel Moshrefi** (DVM) March 2023

[20]. Role of D2-like dopamine receptors in the dorsal hippocampus in the effects of cannabidiol on reinstatement of methamphetamine (METH)-induced conditioned place preference in the rat. **Seyed Erfan Omidiani** (DVM) March 2023

[21]. Role of D1-like dopamine receptors in the dorsal hippocampus in the effects of cannabidiol on reinstatement of methamphetamine (METH)-induced conditioned place preference in the rat. **Amir Mohammad Farrokhi** (DVM) March 2023

[22]. 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) February 2023

[23]. Time, frequency and time-frequency domain analysis of the local field potential data recorded from the brain reward system. **AmirAli Kalbasi** (MSc) February 2023

[24]. Recognition of decision-making patterns and prediction of Rat's location from recorded local field potential. **Maedeh Sadeghi** (MSc) January 2023

[25]. 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) January 2023

[26]. Investigation of the oscillatory connectivity between hippocampus and prelimbic areas of the brain in the reward system. **Reyhane Ghasab Sedehi** (MSc) December 2022

[27]. Possible role of D1-like dopamine receptors in the dentate gyrus region of the

hippocampus (DG) in the effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat. **Mahsa Mohammadi** (DVM) September 2022

[28]. Role of dopamine receptors within the CA1 hippocampal area in stress-induced antinociceptive responses in animal model of persistent inflammatory pain in the rats. **Ramin Dezfouli Abdi** (PharmD) August 2022

[29]. 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) July 2022

[30]. Role of orexinergic receptors within the CA1 hippocampal area in stress-induced antinociceptive responses in the acute pain model in the rat. **Delaram Ghalebandi** (PharmD) January 2022

[31]. Role of orexinergic receptors within the CA1 hippocampal area in stress-induced antinociceptive responses in animal model of persistent inflammatory pain in the rats. **Fatemeh Zarei** (PharmD) August 2021

[32]. 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) May 2021

[33]. 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) May 2021

[34]. Effects of cannabidiol on the acquisition and expression of METH-induced conditioned place preference in the rat. **Mahsa Anooshe** (PharmD) May 2021

[35]. 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) February 2021

[36]. Effect of chemical stimulation of lateral hypothalamus on neuropathic pain in rat: Possible involvement of orexin receptors in spinal cord. **Sakineh Salehi**

Marni (PhD) February 2020

[37]. Effects of cannabidiol on morphine and methylphenidate-induced conditioned place preference during extinction/reinstatement in animal model. **Adel Khasefi** (PhD) January 2020

[38]. Effect of spatial memory learning and parental gender on neuroplasticity and BDNF expression in the next generation. **Javad Riyahi Farsani** (PhD) January 2020

[39]. 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

[40]. Effects of Cannabidiol on methamphetamine-induced reinstatement in paradoxical sleep-deprivated rats: behavioral, molecular & electrophysiological study. **Saeideh Karimi-Haghighi** (PhD) January 2019

[41]. 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

[42]. 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

[43]. 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

[44]. 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

[45]. 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

[46]. Effects of Forced Swim and Restraint Stresses on devolvement of morphine sensitization: involvement of dopamine D1/D2 receptors in the nucleus accumbens. **Elham Charmchi** (PhD) September 2016

[47]. 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

[48]. 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

[49]. Role of dopaminergic receptors in the nucleus accumbens in physical stress-induced reinstatement of morphine seeking in rat. **Zahra Farzinpour** (MSc) May 2016

[50]. 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

[51]. 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

[52]. 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

[53]. 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

[54]. 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

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

[56]. 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

[57]. 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

[58]. 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

[59]. 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

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

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

[62]. 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

[63]. 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

[64]. 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

[65]. 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

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

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

[68]. 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

[69]. 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

[70]. 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

[71]. 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

[72]. 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

[73]. 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

[74]. 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]. The effect of eight weeks continuous and high intensity interval training on orexin receptor expression and regulation of voluntary physical activity behavior in male Wistar rats. **Zahra Zare** (MSc) Thesis in progress

[2]. The effect of forced training preconditioning on expression of hippocampal orexin 1 receptor and extinction of the methamphetamine-induced conditioned place preference (CPP) in male Wistar rats. **Mansoureh Ahmadpour Mobarakeh** (MSc) Thesis in progress

[3]. The role of progesterone on LTP in WDR neurons of spinal cord in a model of peripheral nerve demyelination on the male rats: the possible involvement of the ephrinB1 and ephrinB2 molecules. **Shina Abtin** (PhD) January 2023

[4]. Investigating causality in LFP data recorded from hippocampus and nucleus Accumbens. **Kosar Rezaee Geshniani** (MSc) September 2022

[5]. Locating rats by LFP recorded data acquired from HIP and NAc. **Mina Naseh** (MSc) January 2022

[6]. 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. **Mahboobeh Mirmohammadi** (MSc) January 2022

[7]. The effect of dopaminergic input on clock genes expression and electrical activity in adult superachiasmatic nucleus rats. **Somaye Mesgar** (PhD) November 2021

[8]. Effect of eight weeks of resistance training on cognitive functions in heroin addicts. **Hanieh Soltani** (PhD) September 2021

[9]. 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) September 2021

[10]. Study of the combined effects of heat and psychological stress on some reproductive characteristics of male rats (Semen quality, sperm DNA damage and testicular tissue). **Farnaz Abdollahi** (MSc) July 2021

[11]. 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) July 2021

[12]. The effect of prepubertal training history on brain health and physical fitness in adulthood period: Longitudinal study. **Samira Rostami** (PhD) May 2021

[13]. The effect of localized and remote pain on variability of motor coordination and learning of dart throwing. **Hasan Arieh** (PhD) May 2021

[14]. Effect of combined exposure to heat and psychological stresses on the serum levels of testosterone and corticosterone hormones in male tats. **Faezeh Abbasi Balochkhaneh** (MSc) March 2021

[15]. 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) July 2020

[16]. 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

[17]. 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

[18]. 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

[19]. 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

[20]. 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

[21]. Effect of high intensity interval training preconditioning on BDNF and some miRNAs in hippocampus of depressed male Wistar rats. **Ayyub Babaei** (PhD) January 2019

[22]. Design and implementation of oscillation phase control system in closed-loop optogenetics stimulation. **Ahmad Ghorbani** (MSc) January 2019

[23]. 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

[24]. Behavioral pattern recognition for rat based on LFP data and cross-correlation methods. **Elham Najafiani** (MSc) February 2018

[25]. 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

[26]. 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

[27]. 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

[28]. 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

[29]. Effect of eight-week aerobic continuous and high intensity interval training on levels of Sirt3 and PGC1α in male wistar rat's skeletal muscle tissue. **Iman Fathi** (PhD) December 2016

[30]. 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

[31]. 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

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

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

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

[35]. 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

[36]. 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

[37]. 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

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

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

[40]. The interaction between orexin and cannabinoid systems in locus coeruleus on

pain modulation. **Mir-Shahram Safari** (PhD) September 2010

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

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

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

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

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

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

Workshops/Schools

- 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

- Addiction Neuroscience (Elsevier)

- Anesthesiology and Pain Medicine (SciteScore$_{2021}$ 3.8; *National Editor*)
- Basic and Clinical Neuroscience (SciteScore$_{2021}$ 2.3; *Section Editor*)
- Brain Sciences (MDPI, IF$_{2021}$ 3.333; *Section Editor*)
- Current Addiction Reports (Springer, IF$_{2021}$ 4.653; *Section Editor*)
- Frontiers in Behavioral Neuroscience (IF$_{2021}$ 3.617; *Behavioral Neuroscience Section*)
- Frontiers in Behavioral Neuroscience (IF$_{2021}$ 3.617; *Learning and Memory Section*)
- Frontiers in Psychiatry (IF$_{2021}$ 5.435; *Addictive Disorders section*)
- Journal of Advances in Cognitive Sciences (National Journal; *Editor-in-Chief*)
- The Journal of Medical Library & Information Science (National Journal; *Chairman*)

Scientific Journals Referee

- 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
- Frontiers in Psychiatry | Addictive Disorders
- 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

Professional Societies

- **I**nternational **B**rain **R**esearch **O**rganization *(IBRO)* **1996 - Present**
- **Ir**anian **S**ociety of **P**hysiology & **P**harmacology *(IRSPP)* **1997 - Present**
- **I**ranian **P**ain **S**ociety (*IPS*; IASP Chapter) **1998 - Present**
- **I**ranian **N**euro**s**cience **S**ociety *(INSS)* **1999 - Present**
- **I**nternational **A**ssociation for the **S**tudy of **P**ain *(IASP)* **2002 - Present**
- **F**ederation of **A**sian-**O**ceanian **N**euroscience **S**ocieties *(FAONS)* **2004 - Present**
- **I**nternational **S**ociety for **N**eurochemistry *(ISN)* **2005 - Present**
- **J**apan **N**euroscience **S**ociety *(JNS)* **2007 - Present**
- **S**ociety **f**or **N**euroscience *(SfN)* **2009 - Present**
- **F**ederation of **A**sian-**O**ceanian **P**hysiological **S**ocieties *(FAOPS)* **2009 - Present**
- **I**nternational **B**ehavioral **N**euroscience **S**ociety *(IBNS)* **2010 - Present**
- **Ir**anian **N**euro**s**cientists **C**ommunity *(IRNSC)* **2011 - Present**

- **C**anadian **A**ssociation for **N**euroscience *(CAN)* **2016 - Present**
- **O**rganization for **H**uman **B**rain **M**apping *(OHBM)* **2017 - Present**
- **G**erman **N**euroscience **S**ociety (*GNS*) **2018 - Present**