

Academic Curriculum Vitae of Ameneh Rezayof

Ameneh Rezayof, PhD

Full Professor,

Neuroscience Lab, Department of Animal Biology,
School of Biology, College of Science, University of Tehran
P. O. BOX: 4155 - 6455, TEHRAN, IRAN

<https://rtis2.ut.ac.ir/cv/arezayof/?lang=en-gb>

Cellphone: +98-912-339-6920

E-mails: arezayof@ut.ac.ir; arezayof@gmail.com

Scopus Author ID: [8885973300](https://orcid.org/0000-0002-2806-2057)

ISI Researcher ID: [X-4145-2019](https://orcid.org/0000-0002-2806-2057)

ORCID: [0000-0002-2806-2057](https://orcid.org/0000-0002-2806-2057)

Google Scholar Page:

<https://scholar.google.com/citations?user=8Ow5AO0AAAAJ&hl=en>

Education

PhD (2003), Animal Physiology, University of Tehran, Iran.

M.Sc. (1993), Animal Science-Physiology, University of Tehran, Iran.

B.Sc. (1990), Biology-Animal Science, University of Tehran, Iran.

Professional and Academic Appointments

Full Professor (2013 - Now), Department of Animal Biology, School of Biology, College of Science, University of Tehran, Tehran, Iran, arezayof@ut.ac.ir

Visiting Professor (July 2018- February 2019), Department of Pharmacology and Toxicology, University of Toronto, Room 4302, Medical Sciences Building 1 King's College Circle, Toronto, Canada, ameneh.rezayof@utoronto.ca

Associate Professor (2008 - 2013), Department of Animal Biology, School of Biology, College of Science, University of Tehran, Tehran, Iran

Assistant Professor (2003 - 2008), Department of Animal Biology, School of Biology, College of Science, University of Tehran, Tehran, Iran,

Non-Resident Researcher (August 2003- September 2017), IPM - Institute for Research in Fundamental Science, School of Cognitive Sciences

Academic Honors and Awards

- Awarded by the president as an exemplary BSc student in 1990
- Ranking 1st on nationwide university postgraduate entrance exam in 1990
- Top graduate at MSc (GPA: 19.03 out of 20) and PhD levels (19.11 out of 20)
- Awarded by heads of the College of Science for research studies (2005) and Teaching activities (2014)
- Awarded by the 12th Avicenna Festival, Tehran University of Medical Sciences, for top research proposal in 2011
- Awarded a fellowship to the 2016 Kavli Summer Institute in Cognitive Neuroscience (June 20-July 1), the University of California, Davis, USA
- Best Lecturer Teaching Awards, Head of College of Science, the University of Tehran in 2017
- Awarded by the 6th teaching Festival, the University of Tehran, for best professor in education in 2019
- Awarded by 28th Research Festival, University of Tehran for outstanding researcher in 2019

Research Interests

- Behavioral Neuroscience
- Cellular and Molecular Neurobiology of Memory formation/impairment
- Neurobiology of Reward-related learning and Emotional Behaviors
- Neuropsychopharmacology of Drug Addiction
- Neurobiology of Pain

Academic Teaching Experience

- Neurophysiology (Graduate level, PhD)
- Neurotransmitters and their receptors (Graduate level, PhD)
- Molecular and Cellular Neurobiology (Graduate level, PhD)
- Neuroanatomy (Graduate level, PhD)
- Comparative Neurophysiology (Graduate level, PhD)
- Behavioral Neurophysiology (Graduate level, M.Sc.)
- Physiology of Central Nervous system (Graduate level, M.Sc.)
- Physiology of nerve and muscle (Graduate level, M.Sc.)

- Neurophysiology and Endocrinology (Undergraduate level)
- Cellular Physiology (Undergraduate level)
- Animal physiology I, II and III (Undergraduate level)
- Comparative Physiology (Undergraduate level)
- Medical Physiology (Undergraduate level)
- Animal Biology (Undergraduate level)

Publications

PhD. Thesis:

Involvement of dopamine receptors in morphine psychological dependence in rats. Advisor: Prof. Mohammad-Reza Zarrindast, Dept. of Pharmacology, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran (September 1998-April 2003)

Book Chapters:

- Neuropathology of Drug Addictions and Substance Misuse, Volume 1: Foundations of Understanding, Tobacco, Alcohol, Cannabinoids and Opioids, Chapter 15: **Rezayof A**, and Hashemizadeh Sh. "Critical Role of Cannabinoid CB1 Receptors in Nicotine Reward and Addiction" California: Elsevier, 2016. <http://booksite.elsevier.com/9780128002131>
- 2nd edition: The Textbook of Nanoneuroscience and Nanoneurosurgery, Chapter 45: **Rezayof A**, Ghasemzadeh Z, Kouhkan F. "microRNAs mediate signaling pathways in Alzheimer's disease: Biomarkers and therapeutic targets. Springer, 2023, in Press. <https://link.springer.com/book/9783030806613>

Journal Publications

Banaei-Boroujeni G, **Rezayof A**, Alijanpour S, Nazari-Serenjeh F. Targeting mediodorsal thalamic CB1 receptors to inhibit dextromethorphan-induced anxiety/exploratory-related behaviours in rats: The post-weaning effect of exercise and enriched environment on adulthood anxiety. *J Psychiatr Res.* 2023 Jan;157:212-222.

Asgharpour-Masouleh N, **Rezayof A**, Alijanpour S, Delphi L. Pharmacological activation of mediodorsal thalamic GABA-A receptors modulates morphine/cetirizine-induced changes in the prefrontal cortical GFAP expression in a rat model of neuropathic pain. *Behav Brain Res.* 2023 Feb 13;438:114213.

Hosseinzadeh Sahafi O, **Rezayof A**, Ghasemzadeh Z, Alijanpour S, Rahimian S. Ameliorating effect of fluoxetine on tamoxifen-induced memory loss: The role of corticolimbic NMDA receptors and CREB/BDNF/cFos signaling pathways in rats. *Brain Res.* 2022 Aug 22;1794:148058.

Alizadeh K, Moghimi H, Golbabaei A, Alijanpour S, **Rezayof A**. Post-Weaning Treatment with Probiotic Inhibited Stress-Induced Amnesia in Adulthood Rats: The Mediation of GABAergic System and BDNF/c-Fos Signaling Pathways. *Neurochem Res.* 2022 Aug; 47(8): 2357-2372.

Farzamfard P, **Rezayof A**, Alijanpour S. Ventral hippocampal NMDA receptors mediate the effects of nicotine on stress-induced anxiety/exploratory behaviors in rats *Neurosci Lett.* 2022 May 29; 780:136649.

Navabpour S, **Rezayof A**, Ghasemzadeh Z. Activation of VTA/CeA/mPFC cannabinoid CB1 receptors induced conditioned drug effects via interacting with hippocampal CAMKII-CREB-BDNF signaling pathway in rats. *Eur J Pharmacol.* 2021 Oct 15; 909: 174417.

Ghasemzadeh Z, Seddighfar M, Alijanpour S, **Rezayof A**. Ventral tegmental area serotonin 5-HT1A receptors and corticolimbic cFos/BDNF/GFAP signaling pathways mediate dextromethorphan/morphine anti-allodynia. *Physiol Behav.* 2021 Oct 1; 239: 113522.

Abbasi-Habashi S, Ghasemzadeh Z, **Rezayof A**. Morphine improved stress-induced amnesia and anxiety through interacting with the ventral hippocampal endocannabinoid system in rats. *Brain Res Bull.* 2020 Nov;164: 407-414.

Hosseinian S, Arefian E, Rakhsh-Khorshid H, Eivani M, **Rezayof A**, Pezeshk H, Marashi SA. A meta-analysis of gene expression data highlights synaptic dysfunction in the hippocampus of brains with Alzheimer's disease. *Sci Rep.* 2020 May 20;10(1):8384.

Ghasemzadeh Z, Sardari M, Javadi P, **Rezayof A**. Expression analysis of hippocampal and amygdala CREB-BDNF signaling pathway in nicotine-induced reward under stress in rats. *Brain Res*. 2020 Aug 15;1741:146885

Amiri S, Jafari-Sabet M, Keyhanfar F, Falak R, Shabani M, **Rezayof A**. Hippocampal and prefrontal cortical NMDA receptors mediate the interactive effects of olanzapine and lithium in memory retention in rats: the involvement of CAMKII-CREB signaling pathways. *Psychopharmacology (Berl)*. 2020 May; 237(5):1383-1396.

Sharifi KA, **Rezayof A**, Alijanpour S, Zarrindast MR. GABA-cannabinoid interplays in the dorsal hippocampus and basolateral amygdala mediate morphine-induced amnesia. *Brain Res Bull*. 2020 Apr;157:61-68.

Torabi M, Azizi H, Ahmadi-Soleimani SM, **Rezayof A**. Adolescent nicotine challenge promotes the future vulnerability to opioid addiction: Involvement of lateral paraventricular neurons. *Life Sci*. 2019 Oct 1;234:116784.

Eivani M, Alijanpour S, Arefian E, **Rezayof A**. Corticolimbic analysis of microRNAs and protein expressions in scopolamine-induced memory loss under stress. *Neurobiol Learn Mem*. 2019 Oct;164:107065. Epub 2019 Aug 7.

Karimani F, Delphi L, **Rezayof A**. Nitric oxide blockade in mediodorsal thalamus impaired nicotine/ethanol-induced memory retrieval in rats via inhibition of prefrontal cortical pCREB/CREB signaling pathway. *Neurobiol Learn Mem*. 2019 Jul;162:15-22.

Javid H, **Rezayof A**, Ghasemzadeh Z, Sardari M. The involvement of ventral hippocampal microglial cells, but not cannabinoid CB1 receptors, in morphine-induced analgesia in rats. *Acta Neurol Belg*. 2019 Apr 20.

Seddighfar M, Ghasemzadeh Z, **Rezayof A**. The blockade of 5-HT1A receptors in the ventral tegmental area inhibited morphine/dextromethorphan-induced analgesia in pain rat models. *Brain Res*. 2019 Jul 15;1715:27-34.

Tolou-Dabbaghian B, Delphi L, **Rezayof A**. Blockade of NMDA Receptors and Nitric Oxide Synthesis Potentiated Morphine-Induced Anti-Allodynia via Attenuating Pain-Related Amygdala pCREB/CREB Signaling Pathway. *J Pain*. 2019 Jan 29. pii: S1526-5900(19)30411-0.

Ghasemzadeh Z, **Rezayof A**. Medial prefrontal cortical cannabinoid CB1 receptors mediate morphine-dextromethorphan cross state-dependent memory: The involvement of BDNF/cFOS signaling pathways. *Neuroscience*. 2018 Nov 21;393:295-304.

Keshavarzian E, Ghasemzadeh Z, **Rezayof A**. The basolateral amygdala dopaminergic system contributes to the improving effect of nicotine on stress-induced memory impairment in rats. *Prog Neuropsychopharmacol Biol Psychiatry*. 2018 Aug 30;86:30-35.

Tirgar F, **Rezayof A**, Alijanpour S, Yazdanbakhsh N. Interactive effects of morphine and nicotine on memory function depend on the central amygdala cannabinoid CB1 receptor function in rats. *Prog Neuropsychopharmacol Biol Psychiatry*. 2018 Mar 2;82:62-68.

Javadi P, **Rezayof A**, Sardari M, Ghasemzadeh Z. Brain nicotinic acetylcholine receptors are involved in stress-induced potentiation of nicotine reward in rats. *J Psychopharmacol*. 2017 Jul;31(7):945-955.

Sharifi KA, **Rezayof A**, Torkaman-Boutorabi A, Zarrindast MR. The major neurotransmitter systems in the basolateral amygdala and the ventral tegmental area mediate morphine-induced memory consolidation impairment. *Neuroscience*. 2017 Jun 14;353:7-16.

Nazarinia E, **Rezayof A**, Sardari M, Yazdanbakhsh N. Contribution of the basolateral amygdala NMDA and muscarinic receptors in rat's memory retrieval. *Neurobiol Learn Mem*. 2017 Mar;139:28-36.

Ghasemzadeh Z, **Rezayof A**. Neuromodulatory effects of the dorsal hippocampal endocannabinoid system in dextromethorphan/morphine-induced amnesia. *Eur J Pharmacol*. 2017 Jan 5;794:100-105.

Ofogh SN, **Rezayof A**, Sardari M, Ghasemzadeh Z. Basolateral amygdala CB1 cannabinoid receptors are involved in cross state-dependent memory retrieval between morphine and ethanol. *Pharmacol Biochem Behav*. 2016 Sep;148:92-8.

Mohammadmirzaei N, **Rezayof A**, Ghasemzadeh Z. Activation of cannabinoid CB1 receptors in the ventral hippocampus improved stress-induced amnesia in rat. *Brain Res*. 2016 Sep 1;1646:219-26.

Nedaei SE, **Rezayof A**, Pourmotabbed A, Nasehi M, Zarrindast MR. Activation of endocannabinoid system in the rat basolateral amygdala improved scopolamine-induced memory consolidation impairment. *Behav Brain Res*. 2016 Sep 15;311:183-91.

Tajik A, **Rezayof A**, Ghasemzadeh Z, Sardari M. Activation of the dorsal hippocampal nicotinic acetylcholine receptors improves tamoxifen-induced memory retrieval impairment in adult female rats. *Neuroscience*. 2016 Jul 7;327:1-9.

Bashiri H, **Rezayof A**, Sahebgharani M, Tavangar SM, Zarrindast MR. Modulatory effects of the basolateral amygdala $\alpha 2$ -adrenoceptors on nicotine-induced anxiogenic-like behaviours of rats in the elevated plus maze. *Neuropharmacology*. 2016 Feb 13; 105: 478-486.

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Ghaderi M, **Rezayof A**, Vousooghi N, Zarrindast MR. Dorsal hippocampal NMDA receptors mediate the interactive effects of arachidonylcyclopropylamide and MDMA/ecstasy on memory retrieval in rats. *Prog Neuropsychopharmacol Biol Psychiatry*. 2015 Nov 26; 66: 41-47.

Sardari M, **Rezayof A**, Khodaghohi F. Hippocampal signaling pathways are involved in stress-induced impairment of memory formation in rats. *Brain Res*. 2015 Nov 2; 1625: 54-63.

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Alijanpour S, **Rezayof A**, Sepehri H, Delphi L. Alterations in the hippocampal phosphorylated CREB expression in drug state-dependent learning. *Behav Brain Res*. 2015 Oct 1; 292: 109-15.

Sardari M, **Rezayof A**, Zarrindast MR. 5-HT1A receptor blockade targeting the basolateral amygdala improved stress-induced impairment of memory consolidation and retrieval in rats. *Neuroscience*. 2015 Aug 6; 300: 609-18.

Jafarinejad-Farsangi S, Farazmand A, **Rezayof A**, Darbandi N. Proteome Analysis of Rat Hippocampus Following Morphine-induced Amnesia and State-dependent Learning. *Iran J Pharm Res*. 2015 Spring; 14 (2): 591-602.

Ghazvini H, **Rezayof A**, Ghasemzadeh Z, Zarrindast MR. μ -Opioid and N-methyl-D-aspartate receptors in the amygdala contribute to minocycline-induced potentiation of morphine analgesia in rats. *Behav Pharmacol*. 2015 Jun; 26 (4): 383-92.

Tirgar F, **Rezayof A**, Zarrindast MR. Central amygdala nicotinic and 5-HT1A receptors mediate the reversal effect of nicotine and MDMA on morphine-induced amnesia. *Neuroscience*. 2014 Sep 26; 277: 392-402.

Ghasemzadeh Z, **Rezayof A**. Ventral hippocampal nicotinic acetylcholine receptors mediate stress-induced analgesia in mice. *Prog Neuropsychopharmacol Biol Psychiatry*. 2015 Jan 2; 56: 235-42.

Hashemizadeh S, Sardari M, **Rezayof A**. Basolateral amygdala CB1 cannabinoid receptors mediate nicotine-induced place preference. *Prog Neuropsychopharmacol Biol Psychiatry*. 2014 Jun 3; 51:65-71.

Sardari M, **Rezayof A**, Khodaghohi F, Zarrindast MR. Basolateral amygdala GABA-A receptors mediate stress-induced memory retrieval impairment in rats. *Int J Neuropsychopharmacol*. 2014 Apr;17(4):603-12.

Zarrindast MR, Ownegh V, **Rezayof** A, Ownegh F. The involvement of dorsal hippocampus in dextromethorphan-induced state-dependent learning in mice. *Pharmacol Biochem Behav.* 2014 Jan;116:90-5.

Nasehi M, Ahmadzadeh O, **Rezayof** A, Zarrindast MR. Does CA1 dopaminergic system play a role in cholestasis induced hypothermia? *Pathophysiology.* 2013 Jun;20(3):181-9.

Zarrindast MR, Tajik R, Ebrahimi-Ghiri M, Nasehi M, **Rezayof** A. Role of the medial septum cholinceptors in anxiogenic-like effects of nicotine. *Physiol Behav.* 2013 Jul 2;119:103-9.

Alijanpour S, **Rezayof** A. Involvement of dorsal hippocampal and medial septal nicotinic receptors in cross state-dependent memory between WIN55, 212-2 and nicotine or ethanol in mice. *Neuroscience.* 2013 Aug 15;245:61-73.

Alijanpour S, **Rezayof** A, Zarrindast MR. Dorsal hippocampal cannabinoid CB1 receptors mediate the interactive effects of nicotine and ethanol on passive avoidance learning in mice. *Addict Biol.* 2013 Mar;18(2):241-51.

Nasehi M, Ahmadzadeh O, **Rezayof** A, Zarrindast MR. Does CA1 dopaminergic system play a role in cholestasis induced hypothermia? *Pathophysiology* 2013; 20(3):181-9.

Zarrindast MR, Tajik R, Ebrahimi-Ghiri M, Nasehi M, **Rezayof** A. Role of the medial septum cholinceptors in anxiogenic-like effects of nicotine. *Physiol Behav.* 2013;119:103-9.

Zarrindast MR, Mashayekhi M, **Rezayof** A, Ahmadi S. β -Adrenoceptors in the dorsal hippocampus are involved in ethanol-induced state-dependent retrieval in mice. *Neurobiol Learn Mem.* 2013;100, 12-7.

Zarrindast MR, Eslahi N, **Rezayof** A, Rostami P, Zahmatkesh M. Modulation of ventral tegmental area dopamine receptors inhibit nicotine-induced anxiogenic-like behavior in the central amygdala. *Prog Neuropsychopharmacol Biol Psychiatry.* 2013;41:11-7.

Rezayof A, Assadpour S, Alijanpour S. Morphine-induced anxiolytic-like effect in morphine-sensitized mice: Involvement of ventral hippocampal nicotinic acetylcholine receptors. *Pharmacol Biochem Behav.* 2012 Oct 12;103(3):460-466.

Nazari-Serenjeh F, **Rezayof** A. Cooperative interaction between the basolateral amygdala and ventral tegmental area modulates the consolidation of inhibitory avoidance memory. *Prog Neuropsychopharmacol Biol Psychiatry.* 2013 Jan 10;40:54-61.

Rezayof A, Ghandipour M, Nazari-Serenjeh F. Effect of co-injection of arachydonilcyclopropylamide and ethanol on conditioned place preference in rats. *Physiol Behav.* 2012 Oct 10;107(3):301-8.

Zarrindast MR, Khalifeh S, **Rezayof** A, Rostami P, Aghamohammadi Sereshki A, Zahmatkesh M. Involvement of rat dopaminergic system of nucleus accumbens in nicotine-induced anxiogenic-like behaviors. *Brain Res.* 2012 Jun 15;1460:25-32.

Zarrindast MR, Ghiasvand M, **Rezayof** A, Ahmadi S. The amnesic effect of intra-central amygdala administration of a cannabinoid CB1 receptor agonist, WIN55,212-2, is mediated by a beta-1 noradrenergic system in rat. *Neuroscience.* 2012 Jun 14;212:77-85.

Zarrindast MR, Ardjmand A, Ahmadi S, **Rezayof** A. Activation of dopamine D1 receptors in the medial septum improves scopolamine-induced amnesia in the dorsal hippocampus. *Behav Brain Res.* 2012 Apr 1;229(1):68-73.

Nazari-Serenjeh F, **Rezayof** A, Zarrindast MR. Functional correlation between GABAergic and dopaminergic systems of dorsal hippocampus and ventral tegmental area in passive avoidance learning in rats. *Neuroscience.* 2011 Sep 10; 196: 104–114.

Ghiasvand M, **Rezayof** A, Zarrindast MR, Ahmadi S. Activation of cannabinoid CB1 receptors in the central amygdala impairs inhibitory avoidance memory consolidation via NMDA receptors. *Neurobiol Learn Mem.* 2011 Sep; 96(2): 333-8.

Ghiasvand M, **Rezayof** A, Ahmadi S, Zarrindast MR. β 1-noradrenergic system of the central amygdala is involved in state-dependent memory induced by a cannabinoid agonist, WIN55,212-2, in rat. *Behav Brain Res.* 2011 Nov 20; 225(1): 1-6.

Azizbeigi R, Ahmadi S, Babapour V, **Rezayof** A, Zarrindast MR. Nicotine restores morphine-induced memory deficit through the D1 and D2 dopamine receptor mechanisms in the nucleus accumbens. *J Psychopharmacol.* 2011 Aug; 25(8):1126- 33.

Rezayof A, Sardari M, Zarrindast MR, Nayer-Nouri T. Functional interaction between morphine and central amygdala cannabinoid CB1 receptors in the acquisition and expression of conditioned place preference. *Behav Brain Res.* 2011 Jun 20; 220 (1):1-8.

Rezayof A, Habibi P, Zarrindast MR. Involvement of dopaminergic and glutamatergic systems of the basolateral amygdala in amnesia induced by the stimulation of dorsal hippocampal cannabinoid receptors. *Neuroscience.* 2011 Feb 23; 175: 118-26.

Zarrindast MR, Asadi F, **Rezayof** A. Repeated Pretreatment of Morphine Prevents Morphine-induced Amnesia: A Possible Involvement for Dorsal Hippocampal NMDA Receptors. *Arch Iran Med.* 2011 Jan;14(1):32-8.

Ardjmand A, **Rezayof** A, Zarrindast MR. Involvement of central amygdala NMDA receptor mechanism in orphine state-dependent memory retrieval. *Neurosci Res.* 2010 Sep 25.

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Rassouli Y, **Rezayof A**, Zarrindast MR. Role of the central amygdala GABA-A receptors in morphine state-dependent memory. *Life Sci.* 2010 Jun 5;86(23-24):887-93.

Zarrindast MR, Meshkani J, **Rezayof A**, Beigzadeh R, Rostami P. Nicotinic acetylcholine receptors of the dorsal hippocampus and the basolateral amygdala are involved in ethanol-induced conditioned place preference. *Neuroscience.* 2010 Jun 30;168(2):505-13.

Zarrindast MR, Dorrani M, Lachinani R, **Rezayof A**. Blockade of dorsal hippocampal dopamine receptors inhibits state-dependent learning induced by cannabinoid receptor agonist in mice. *Neurosci Res.* 2010 May;67(1):25-32.

Rezayof A, Zare-Chahoki A, Zarrindast MR, Rassouli Y. Inhibition of dorsal hippocampal nitric oxide synthesis potentiates, ethanol-induced state-dependent memory in mice. *Behav Brain Res.* 2010 Jun 19; 209(2):189-95.

Zarrindast MR, Khodarahmi P, **Rezayof A**, Oryan S. Withdrawal from repeated administration of morphine alters histamine-induced anxiogenic effects produced by intra-ventral hippocampal microinjection. *J Psychopharmacol.* 2010 Jun; 24(6): 881-9.

Rezayof A, Shirazi-Zand Z, Zarrindast MR, Nayer-Nouri T. Nicotine improves ethanol-induced memory impairment: The role of dorsal hippocampal NMDA receptors. *Life Sci.* 2010 Feb 13; 86(7-8):260-6.

Houghoghi V, **Rezayof A**, Zyaian S, Zarrindast MR. Intradorsal hippocampal microinjection of lithium reverses morphine-induced impairment of memory in mice: interactions with dopamine receptor mechanism(s). *Behav Pharmacol.* 2009 Dec;20(8):680-7.

Rezayof A, Hosseini SS, Zarrindast MR. Effects of morphine on rat behaviour in the elevated plus maze: the role of central amygdala dopamine receptors. *Behavioural Brain Research*, 2009 Sep 14; 202(2):171-1788.

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Ahmadi S, Zarrindast MR, Nouri M, Haeri-Rohani A, **Rezayof A**. N-Methyl-D-aspartate receptors in the ventral tegmental area are involved in retrieval of inhibitory avoidance memory by nicotine. *Neurobiol Learn Mem*. 2007 Oct; 88(3):352-8. Epub 2007 Aug 17.

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Rezayof A, Nazari-Serenjeh F, Zarrindast MR, Sepehri H, Delphi L. Morphine-induced place preference: involvement of cholinergic receptors of the ventral tegmental area. *Eur J Pharmacol.* 2007; 562(1-2): 92-102.

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Ghasemzadeh Z, **Rezayof A**. Role of the prefrontal cortical CAMKII-CREB signaling pathways in cross state-dependent learning between morphine and dextromethorphan. EBBS-EBPS joint meeting, September, 12-15 2015, Verona, Italy.

Ghasemzadeh Z, **Rezayof A**. Cross-state dependent memory between morphine and dextromethorphan is correlated with the prefrontal cortical signaling pathway. 10th FENS congress, 2-6 july, 2016, Copenhagen, Denmark.

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Valajannavabpour Sh, **Rezayof A**, Ghasemzadeh Z. Rewarding effect of the ventral tegmental area CB1 receptor activation associated with the hippocampal CAMKII signaling. 10th FENS congress, 2-6 july, 2016, Copenhagen, Denmark.

Nedaei SE, **Rezayof A**, Pourmotabbed A, Nasehi M, Zarrindast MR. Activation of endocannabinoid system in the rat basolateral amygdala improved scopolamine-induced memory consolidation impairment. 7th Congress of Basic and Clinical Neuroscience, 12-14 December, 2018, Tehran, Iran.

Alizadeh, K, **Rezayof A**, Moghimi H, Alijanpour S. Improvement of stress-induced amnesia by probiotic treatment in rats: Implications of GABA-A receptors. 24th Iranian & 3rd International Congress of Physiology and Pharmacology. 30 November-1 October, 2019, Tehran, Iran.

Rezayof A. (an invited speaker). Behavioural and molecular animal studies in nicotine effects on mesocorticolimbic brain areas. 1st INSF-CAS joint workshop (Iran-China). August 2019.

Rezayof A. (an invited speaker). MicroRNAs have a critical role in memory formation and amnesia. 7th Annual G20 Summit/ G20 Summit/Neuroscience 20 World Brain Mapping & Therapeutic Initiative. 21-22 October, 2020, California, USA.

Asgharpour-Masouleh N, **Rezayof A**, Alijanpour S, Arefian E. Prefrontal cortical microRNA-142/143 and GFAP signaling pathway mediate muscimol, cetirizine,

morphine-induced neuropathic analgesia in rat model. 17th/18th Annual World Congress for Brain Mapping & Therapeutics. 2-6 July, 2021, California, USA.

Moharreri, K, **Rezayof A**, Delphi L, Asgharpour-Masouleh N. A functional interaction between the mediodorsal thalamic dopaminergic and opioidergic systems produced anti-allodynic effect in neuropathic rats. 22nd National and 10th International Congress on Biology. 31-33 August, 2022, Shahrekord, Iran.

Moghimi S, **Rezayof A**, Delphi L. Correlation between opioidergic and ventral pallidal endocannabinoid systems in the rewarding brain system of rats. 22nd National and 10th International Congress on Biology. 31-33 August, 2022, Shahrekord, Iran.

Mamdouh F, **Rezayof A**, Alijanpour S. Functional interaction between endocannabinoid and nitric oxide systems of the dentate gyrus in scopolamine-induced memory loss in mice. 11th Basic and Clinical Neuroscience Congress. 13-14, February, 2023, Tehran, Iran.

Rezaitabar M, **Rezayof A**, Delphi L. The dentate gyrus endocannabinoid system mediates cross-state-dependent learning between morphine and nicotine in rats. 11th Basic and Clinical Neuroscience Congress. 13-14, February, 2023, Tehran, Iran.

Rezayof A. GABAergic System and BDNF/c-Fos Signaling Pathways Mediate the Inhibitory Effect of Probiotic Treatment on Stress-Induced Amnesia. 11th Basic and Clinical Neuroscience Congress. 13-14, February, 2023, Tehran, Iran.

Service

- Head of Department of Animal Biology (2005-2007)
- Head of Cognitive Sciences Research Group, Department of Convergent Technologies, University of Tehran (2016-2018)
- Member of Graduate Committee in school of Biology (2010-2017)
- Council Member of Iranian Neuroscience Society of Ministry of Health and Medical Education (<https://insorg.ir/en/council-members/>)
- Member of Employment Council in school of Biology (2015-2017 and 2019-present)
- Member of Biological Safety Advisory Committee at the University of Tehran (2019-present)
- Associate Editor in the journal of “Exploration of Neuroscience” and Guest Editor for special issue entitled “Neuroinflammation in the Ageing and the Injured Brain”, Submission Deadline: March 15, 2023

- Guest Editor in the journal of “Brain Sciences” for special issue entitled “Advances in the Diversity of GABAergic Neurons”, Submission Deadline: March 15, 2023.

Conference Organizing Committee:

- Scientific Secretary at Basic and Clinical Neuroscience Congress, Tehran, Iran, February 2023
- Member of Organizing Committee and Head of Panel, Basic and Clinical Neuroscience Congress, Tehran, Iran (2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2022).
- Member of Organizing Committee, International Congress on the Knowledge of Addiction, Tehran, Iran (2013, 2014, 2015, 2016, 2019).
- Member of Organizing Committee, 1st and 2nd INSF-CAS joint workshop (Iran-China) 2019 and 2021.

Journals Reviewing Activities:

- Advances in Medical Sciences
- Behavioural Brain Research
- Brain Research
- European Journal of Pharmacology
- European Neuropsychopharmacology
- Frontiers in Cellular Neuroscience
- Frontiers Neuroscience
- Journal of Neuroinflammation
- Neuroscience
- Neuroscience letters
- Neuropsychopharmacology
- Physiology & Behavior
- Progress in Neuro-Psychopharmacology & Biological Psychiatry