Academic Curriculum Vitae of Ameneh Rezayof

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Education

Ph.D. (2003), Animal Physiology, University of Tehran, Iran.

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

B.Sc. (1990), Animal Biology, 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. rezayof@khayam.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, Tehran, Iran.

Academic Honors and Awards

- Awarded by the president of IRAN as 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 College of Science for research studies (2005) and Teaching activities (2014)
- Awarded by 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, University of California, Davis, USA
- Best Lecturer Teaching Awards, Head of College of Science, University of Tehran in 2017
- Awarded by 6th Teaching Festival, 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

- Cognitive Neuroscience
- Cellular and Molecular Neurobiology of Memory Formation
- Neurophysiopharmacology of Reward and Addiction
- Neurophysiopharmacology of Emotional Behaviours

Academic Teaching Experience

- Neurophysiology (Graduate level, PhD)
- Neurotransmitters and their receptors (Graduate level, PhD)
- Molecular and cellular neurobiology (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 (Undergraduate level)
- Cellular Physiology (Undergraduate level)

- Animal physiology (Undergraduate level)
- General Physiology (Undergraduate level)
- Animal Biology (Undergraduate level)

Publications

Ph.D. 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 Chapter:

Neuropathology of Drug Addictions and Substance Misuse, Volume 1: Foundations of Understanding, Tobacco, Alcohol, Cannabinoids and Opioids, Chapter 15: Ameneh Rezayof, and Shiva Hashemizadeh. "Critical Role of Cannabinoid CB1 Receptors in Nicotine Reward and Addiction" California: Elsevier, 2016. http://booksite.elsevier.com/9780128002131

Journal Publications:

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 paragigantocellularis 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 α2-adrenoceptors on nicotine-induced anxiogenic-like behaviours of rats in the elevated plus maze. Neuropharmacology. 2016 Feb 13; 105: 478-486.

Ghasemzadeh Z, **Rezayof A**. Role of hippocampal and prefrontal cortical signaling pathways in dextromethorphan effect on morphine-induced memory impairment in rats. Neurobiol Learn Mem. 2016 Feb; 128: 23-32.

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.

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Kosarmadar N, Ghasemzadeh Z, **Rezayof A**. Inhibition of microglia in the basolateral amygdala enhanced morphine-induced antinociception: Possible role of GABAA receptors. Eur J Pharmacol. 2015 Oct 15; 765: 157-63.

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.

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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.

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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.

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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.

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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.

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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. β1-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.

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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.

Motevasseli T, **Rezayof A**, Zarrindast MR, Nayer-Nouri T. Role of ventral hippocampal NMDA receptors in anxiolytic-like effect of morphine. Physiol Behav. 2010 Dec 2; 101(5): 608-613.

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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.

Rezayof A, Khajehpour L, Zarrindast MR. The amygdala modulates morphine-induced state-dependent memory retrieval via muscarinic acetylcholine receptors. Neuroscience, 2009 May 5;160(2):255-263.

Ghorbanalizadeh-Khalifeh-Mahaleh B, Taheri S, Sahebgharani M, **Rezayof A**, Haeri-Rohani A, Zarrindast MR. Intra-dorsal hippocampal microinjections of lithium and scopolamine induce a cross state-dependent learning in mice. Archives of Iranian Medicine. 2008 Nov;11(6):629-638.

Zarrindast MR, Sarahroodi S, Arzi A, Khodayar MJ, Taheri-Shalmani S, **Rezayof A**. Cannabinoid CB1 receptors of the rat central amygdala mediate anxiety-like behavior: interaction with the opioid system. Behavioral Pharmacology, 2008 Oct;19(7):716-23.

Rezayof A, Sharifi K, Zarrindast MR, Rassouli Y. Modulation of ethanol state-dependent learning by dorsal hippocampal NMDA receptors in mice. Alcohol. 2008 Dec;42(8):667-74. Epub 2008 Sep 6.

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the central amygdala in anxiety-related behavior. Life Sci. 2008 Jun 6;82(23-24):1175-1181.

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Khajehpour L, **Rezayof A**, Zarrindast MR. Involvement of dorsal hippocampal nicotinic receptors in the effect of morphine on memory retrieval in passive avoidance task. Eur J Pharmacol. 2008 Apr 28;584(2-3):343-51.

Zarrindast MR, Valizadegan F, Rostami P, **Rezayof A.** Histaminergic system of the lateral septum in the modulation of anxiety-like behaviour in rats. Eur J Pharmacol. 2008 Mar 31;583(1):108-14.

Zarrindast MR, Hoghooghi V, **Rezayof A**. Inhibition of morphine-induced amnesia in morphine-sensitized mice: involvement of dorsal hippocampal GABAergic receptors. Neuropharmacology. 2008 Mar; 54(3):569-76. Epub 2007 Nov 17.

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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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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)
- Member of the Neuroscience Planning and Evaluation Committee of Ministry of Health and Medical Education (2012-2015)
- 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)

Conference Organizing Committee:

- Member of Organizing Committee and Head of Panel, Basic and Clinical Neuroscience Congress, Tehran, Iran (2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019).

- Member of Organizing Committee, International Congress on the Knowledge of Addiction, Tehran, Iran (2013, 2014, 2015, 2016, 2018).