

## CURRICULUM VITAE (CV)

### *Ali Roohbakhsh*

#### ADDRESS:

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Email: *roohbakhsha@mums.ac.ir***Date of Birth:** 21/09/1978**Marital status:** Married**Number of children:** 1

#### Education (Academic Training):

<b>1992-1996</b>	Diploma, Shahid Beheshti high school, Boshrooyeh, Iran
<b>1996 -2002</b>	Pharm.D. from Mashhad University of Medical Sciences, Iran
<b>2002-2006</b>	Ph.D. in Pharmacology, Tehran University of Medical Sciences, Iran
<b>2005-2006</b> <b>(6 month)</b>	Queens University, Kingston, Canada (Research sabbatical)

**Awards and honors:**

- 1- Third Rank, National Basic Medical Sciences Exam (Pharmacy students), 1999.
- 2- Top Pharmacy Student of the year, 2000.
- 3- First Rank, Iranian national entrance exam for Ph.D. of pharmacology, 2002.
- 4- Best researcher in basic sciences, Rafsanjan University of Medical Sciences, 2009
- 5- Travel grant from International Brain Organization for 5<sup>th</sup> Congress of Federation of Asian and Oceanian Neuroscience Societies

#### Work Experiences & Skills:

<b>Positions:</b>	<ol style="list-style-type: none"><li>1. Director for Food and Drug affairs (Rafsanjan University of Medical Sciences, (2007-2012)</li><li>2. Director for Educational University Pharmacies (2013-2014)</li><li>3. Assistant editor in Iranian Journal of Basic Medical Sciences (2013-present)</li></ol>
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<b>2004 - Present</b>	Animal models of addiction, epilepsy, anxiety and depression. Brain cannulation  Advanced knowledge of Microsoft Windows, and Microsoft office 2010, SPSS 18, Sigma plot, GraphPad InStat, GraphPad Prism
<b>2006-2012</b>	University lecturer, Department of Physiology and Pharmacology, Rafsanjan University of Medical Sciences, Rafsanjan , IRAN
<b>2012-present</b>	University lecturer, Department of Pharmacodynamics and Toxicology, School of Pharmacy, Mashhad University of Medical Sciences, Iran

<b>Research items:</b>	<p>I'm interested the mechanisms of underlying the anxiety-like behaviours in rodents. Especially I'm interested in:</p> <ol style="list-style-type: none"> <li>1) Study the role of cannabinoids and endocannabinoids in the modulation of anxiety</li> <li>2) Study the role of TRPV1 and GPR55 receptors in different brain functions</li> <li>3) The effect of adenosine ligands on the seizure</li> </ol>
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## **Publications:**

1. **Roohbakhsh, A**, Parhiz, H, Soltani, F, Rezaee, R, Iranshahi, M. Molecular mechanisms behind the biological effects of hesperidin and hesperetin for the prevention of cancer and cardiovascular diseases. Life Sciences, 2015, 124, pp. 64-74.
2. Malaekheh-Nikouei, B., **Roohbakhsh, A**. Iranian journal of basic medical sciences: 2014 in profile. Iranian Journal of Basic Medical Sciences, 2015, 18 (1), p. 1.
3. Parhiz H, **Roohbakhsh A**, Soltani F, Rezaee R, Iranshahi M. Antioxidant and Anti-Inflammatory Properties of the Citrus Flavonoids Hesperidin and Hesperetin: An Updated Review of their Molecular Mechanisms and Experimental Models. Phytother Res. 2014 Nov 13.
4. **Roohbakhsh A**, Parhiz H, Soltani F, Rezaee R, Iranshahi M. Neuropharmacological properties and pharmacokinetics of the citrus flavonoids hesperidin and hesperetin - A mini-review. Life Sci. 2014 Sep 15;113(1-2):1-6. Review.
5. Allahtavakoli, M., Hosseini Kahnouei, M.A., Rezazadeh, H.A., **Roohbakhsh, A.**, Mahmoodi, M.H., Moghadam-Ahmadi, A., Zarisfi, M.R. Delayed combination therapy of

local brain hypothermia and decompressive craniectomy on acute stroke outcome in rat. Iran J Basic Med Sci, 2014, 17 (7), 476-482.

6. Hakimizadeh E, Kazemi Arababadi M, Shamsizadeh A, Allahtavakoli M, Rezvani ME, **Roohbakhsh A**. Morphine Reduces Expression of TRPV1 Receptors in the Amygdala but not in the Hippocampus of Male Rats. Iran J Med Sci. 2014 May;39(3):261-7.
7. Shirazi M, Izadi M, Amin M, Rezvani ME, **Roohbakhsh A**, Shamsizadeh A. Involvement of central TRPV1 receptors in pentylenetetrazole and amygdala-induced kindling in male rats. Neurol Sci. 2014 Aug;35(8):1235-41.
8. Rezazadeh H, Hosseini Kahnouei M, Hassanshahi G, Allahtavakoli M, Shamsizadeh A, **Roohbakhsh A**, Fatemi I, Zarisfi M, Pourshanazari AA. Regulatory effects of chronic low-dose morphine on nitric oxide level along with baroreflex sensitivity in two-kidney one-clip hypertensive rats. Iran J Kidney Dis. 2014 May;8(3):194-200.
9. Amiresmaili S, Shamsizadeh A, Allahtavakoli M, Pourshanazari AA, **Roohbakhsh A**. The effect of intra-ventral hippocampus administration of TRPV1 agonist and antagonist on spatial learning and memory in male rats. Pharmacol Rep. 2014 Feb;66(1):10-4.
10. Reza Hosseini O, **Roohbakhsh A**, Tavakolian V, Assar S. Drug Abuse among University Students of Rafsanjan, Iran. Iran J Psychiatry Behav Sci. 2014 Summer; 8(2):81-5.
11. Park SW, **Roohbakhsh A**, Beninger RJ. 8-pCPT, an Epac activator, impairs conditioned place preference based on nucleus accumbens amphetamine in rats. Acta Neuropsychiatr. 2014 Apr;26(2):104-11.
12. Ayoobi, F., Fatemi, I., **Roohbakhsh, A.**, Shamsizadeh, A. Tactile learning within the early phase of experimental autoimmune encephalomyelitis in mice. 2013 Neurophysiology, 2013, 45 (4), 306-311.
13. Moghaddam, A.H., Bigdellu, R., Tabatabaei, S.R.F., **Roohbakhsh, A**. Cannabinoid system of the lateral septum in the modulation of anxiety-like behaviors in rats. Arch Iran Med, 2013, 16 (12), 711-716.
14. Tahamtan M, Allahtavakoli M, Abbasnejad M, **Roohbakhsh A**, Taghipour Z, Taghavi M, Khodadadi H, Shamsizadeh A. Exercise Preconditioning Improves Behavioral Functions follow-ing Transient Cerebral Ischemia Induced by 4-Vessel Occlusion (4-VO) in Rats. Arch Iran Med. 2013; 16(12):697 – 704.
15. Ayoobi F, **Roohbakhsh A**, Allahtavakoli M, Vazirinejad R, Rajabi S, Shamsizadeh A. Achillea millefolium aqueous extract does not impair recognition memory in mice. Tropic J Pharma Res, 2013, 12, 209-213.
16. Ali Dini, Payam Khazaeli, **Ali Roohbakhsh**, Ashkan Madadlou, Mostafa Pourenamdari, Laleh Setoodeh, Ameneh Askarian, Nader Doraki, Hoda Farrokhi, Hasan Moradi, Esmate Khodadadi. Aflatoxin contamination level in Iran's pistachio nut during years 2009–2011. Food Control, 2013, 30, 540-544

17. Pourshanazari AA, **Roohbakhsh A**, Khazaei M, Tajadini H. Comparing the long-term retention of a physiology course for medical students with the traditional and problem-based learning. *Advances in Health Sciences Education*, 2013 Mar;18(1):91-7.
18. Hossein Rezazadeh, Mohammadamin Hoseini Kahnuee, **Ali Roohbakhsh**, Ali Shamsizadeh, Mohammad Reza Rahmani, Reza Bidaki, Fatemeh Amin, Bahareh Kamali, Hamid bakhshi, Mohammad Allahtavakoli. Neuroprotective Consequences of Postconditioning on Embolic Model of Cerebral Ischemia in Rat. *Iran J Basic Med Sci*, 2013, 16, 144-149.
19. Mohammadreza Rahmani, Soodeh Rajabi, Mohammad Allahtavakoli, **Ali Roohbakhsh**, Vahid Shebani, Ali Shamsizadeh. The Role of Capsaicin-induced Acute Inactivation of C-fibers on Tactile Learning in Rat. *Iran J Basic Med Sci*, 2013, 16, 129-133.
20. Ahmad Taghavi Rafsanjani, Abbas Haghparast, Ali Shamsizadeh, Sayed Ali Haeri Rohani, **Ali Roohbakhsh**, Elham Hakimzadeh, Fatemeh Amin, and Mohammad Allahtavakoli. The Effect of Nicotine Administration on Physical and Psychological Signs of Withdrawal Syndrome Induced by Single or Frequent Doses of Morphine in Rats. *Basic and Clinical Neurosciences*. 2012, 3, 49-57.
21. Elham Hakimzadeh, Shahrbanoo Oryan, Akbar Hajizadeh moghaddam, Ali Shamsizadeh, **Ali Roohbakhsh**. Endocannabinoid System and TRPV1 Receptors in the Dorsal Hippocampus of the Rats Modulate Anxiety-like Behaviors *Iran J Basic Med Sci*. 2012, 15, 3, 759-767.
22. Hajizadeh Moghaddam A, Hosseini RS, **Roohbakhsh A**. Anxiogenic effect of CCK8s in the ventral hippocampus of rats: possible involvement of GABA(A) receptors. *Pharmacol Rep*. 2012;64(1):45-53.
23. Mohammad Talebi, Maryam Mashayekhi, Soodeh Rajabi, Mohammadreza Rahmani, **Ali Roohbakhsh** and Ali Shamsizadeh. Effect of chronic morphine treatment on tactile learning in rat. *African Journal of Pharmacy and Pharmacology*. Vol. 5(19), pp. 2128-2131, 22 November, 2011
24. Rezvani ME, **Roohbakhsh A**, Mosaddegh MH, Esmailidehaj M, Khaloobagheri F, Esmaili H. Anticonvulsant and depressant effects of aqueous extracts of *Carum copticum* seeds in male rats. *Epilepsy Behav*. 2011 Oct;22(2):220-5.
25. **Ali Roohbakhsh**, Akbar Hajizadeh Moghaddam, Karim Mahmoodi Delfan. Anxiolytic-like Effect of Testosterone in Male Rats: GABAC Receptors Are Not Involved. *Iranian Journal of Basic Medical Sciences*, 14 (4), 376-382, 2010.
26. M.E. Rezvani, **A. Roohbakhsh**, M. Allahtavakoli, A. Shamsizadeh. Anticonvulsant effect of aqueous extract of *Valeriana officinalis* in amygdala-kindled rats: possible involvement of adenosine. *J Ethnopharmacol*. 2010 Feb 3;127(2):313-8. Epub 2009 Nov 10.
27. Hasanein P, Parviz M, Keshavarz M, **Roohbakhsh A**. URB597, an inhibitor of fatty acid amide hydrolase, reduces hyperalgesia in diabetic rats. *Can J Physiol Pharmacol*. 2009 Jun;87(6):432-9

28. **Ali Roohbakhsh**, Samaneh Keshavarz, Parisa Hasanein, Mohammad Ebrahim Rezvani, Akbar Hajizadeh moghaddam Role of Endocannabinoid System in the Ventral Hippocampus of Rats in the Modulation of Anxiety-Like Behaviours. *Basic & Clinical Pharmacology & Toxicology*. 2009 Nov;105(5):333-8. Epub 2009 Jul 15.
29. Hajizadeh Moghaddam A, **Roohbakhsh A**, Rostami P, Heidary-Davishani A, Zarrindast MR.. GABA and histamine interaction in the basolateral amygdala of rats in the plus-maze test of anxiety-like behaviors. *Pharmacology*. 2008; 82(1):59-66. Epub 2008 May 10.
30. Allahtavakoli M, Shabanzadeh A, **Roohbakhsh A**, Pourshanazari A. Combination therapy of rosiglitazone, a peroxisome proliferator-activated receptor-gamma ligand, and NMDA receptor antagonist (MK-801) on experimental embolic stroke in rats. *Basic Clin Pharmacol Toxicol*. 2007 Nov;101(5):309-14.
31. **Roohbakhsh A**, Moghaddam AH, Massoudi R, Zarrindast MR. Role of dorsal hippocampal cannabinoid receptors and nitric oxide in anxiety like behaviours in rats using the elevated plus-maze test. *Clin Exp Pharmacol Physiol*. 2007 Mar;34(3):223-9.
32. Zarrindast MR, Moghadam AH, Rostami P, **Roohbakhsh A**. The effects of histaminergic agents in the central amygdala of rats in the elevated plus-maze test of anxiety. *Behav Pharmacol*. 2005 Dec;16(8):643-9.
33. Zarrindast MR, Rostami P, Zarei M, **Roohbakhsh A**. Intracerebroventricular effects of histaminergic agents on morphine-induced anxiolysis in the elevated plus-maze in rats. *Basic Clin Pharmacol Toxicol*. 2005 Nov;97(5):276-81.
34. Rezayat M, **Roohbakhsh A**, Zarrindast MR, Massoudi R, Djahanguiri B. Cholecystokinin and GABA interaction in the dorsal hippocampus of rats in the elevated plus-maze test of anxiety. *Physiol Behav*. 2005 Apr 13;84(5):775-82.

#### **Papers in persian:**

- 1- **Roohbakhsh, A**, Karimi, G.R. In vitro evaluation of xanthine oxidase inhibitory activity of aqueous extracts of six medicinal plants. *Journal of Medicinal Plants* 8, 30, 2009, 84-91.
- 2- **Ali Roohbakhsh**, Karim Mahmoodi Delfan, Parvin Rostami, Akbar Hajizadeh Moghaddam. The Effect of Intracerebroventricular Injection of GABAC Selective Agonist and Antagonist on Anxiety-like Behaviors in Male Rats. *Journal of Rafsanjan University of Medical Sciences* 2008; 7(1):13-20 (Persian)
- 3- Allahtavakoli M, Rezaee H, Kamrany N, Shamsizadeh A, Moloudi R, Amin F, Khatami F, Rezvani ME, Pourshanazari AA, **Roohbakhsh A**. Effect of ascorbic acid on infarct volume and neurological deficits after the embolic model of stroke in rat. *Journal of Rafsanjan University of Medical Sciences* 2009; 8(1):49-58 (Persian)
- 4- **Roohbakhsh A**, Esmaeeli H, Asami Z, Shamsizadeh A. The effects of CCK-8 and CCK2 receptor antagonists on naloxone-induced jumping in morphine dependent mice. *Journal of Rafsanjan University of Medical Sciences* 2010; 9(4):305-314. (Persian)

- 5- Rajabi S, Hassanshahi GH, Kazemi Arababadi M, **Roohbakhsh A**, Nasiri B, Shamsizadeh A. Effect of Tactile Learning on Serum Levels of IL-17 in Male Rats. J Babol Univ Med Sci; 2012, 14(3), 25-30. (Persian)
- 6- Honari N, Pourabolli I, Hakimizadeh E, **Roohbakhsh A**, Shamsizadeh A, Vazirinejad R, Rahmani MR, Rezazadeh HA, Yazdian P, Allahtavakoli M. Effect of Vitex Agnus Castus Extraction on Anxiety-Like Behaviors in Ovariectomized Rats. J Babol Univ Med Sci; 2012, 14(5); 29-35. (Persian)
- 7- Ayoobi F, Kamali B, Shamsizadeh A, Sajadi MA, **Roohbakhsh A**, Vazirinejad R, Hakimi E, Rezazadeh HA, Rahmani MR, Allahtavakoli M. Effect of aqueous extract of Descurainia Sophia on castor oil-induced diarrhea in male rat. Journal of Rafsanjan University of Medical Sciences 2012; 12:149-156. (Persian)
- 8- Allahtavakoli M, **Roohbakhsh A**, Rahmani MR, Bakhshi H, Amin F, Shamsizadeh A. Internal Evaluation of Physiology Department of Rafsanjan University of Medical Sciences. J Rafsanjan Univ Med Scie 2013; 12(3): 232-42. [Persian]
- 9- **Roohbakhsh A**, Esmaeili H, Asami Z, Arab Baniasad F, Shamsizadeh A, Rezvani ME. Effect of Anethum graveolens Hydroalcoholic Extract on Pentylentetrazole-induced Paroxysm. Quarterly of the Horizon of Medical Sciences 2013; 19(1): 41-45.

## SELECTED ABSTRACTS

**Ali Roohbakhsh**, MohammadReza Zarrindast, Bijan Djahanguiri. Mehdi Rezayat. CCK and GABA interaction in the dorsal hippocampus of the rats in the elevated plus-maze test of anxiety.. **17<sup>th</sup> Iranian congress of physiology and pharmacology** 1-4 October 2005. Kerman, Iran

**Ali Roohbakhsh**, Akbar Hajizadeh Moghaddam, Mohammad allahtavakoli. Role of dorsal hippocampal nitric oxide in anxiety like behaviours in rats using the elevated plus-maze test. **4<sup>th</sup> Congress of Psychopharmacology** April 25-27 2007. Isfahan, Iran

**Ali Roohbakhsh**, Akbar Hajizadeh Moghaddam, Mohammad allahtavakoli, Ali Asghar Pourshanzari, MohammadEbrahim Rezvani. Dorsal hippocampal cannabinoid system in the modulation of anxiety-like behaviours in rats using the elevated plus-maze test. **18<sup>th</sup> Iranian Congress of physiology and pharmacology**. August 26-29 2007. Mashhad, Iran

**Roohbakhsh A**, Rezvani M.E, Haji zadeh A. Anticonvulsant effect of aqueous extract of Valeriana officinalis in amygdale kindled rats: possible involvement of adenosine. **19<sup>th</sup> Iranian Congress of physiology and pharmacology**. November 03 2009. Tehran, Iran.

**Ali Roohbakhsh**, Hajizadeh moghaddam Akbar, Damchi Jelodar Jamshid, Ali Shamsizadeh. **5<sup>th</sup> Congress of Federation of Asian and Oceanian Neuroscience Societies**, November 25 28, 2010. Lucknow, India.

Akbar Hajizadeh Moghaddam, **Ali Roohbakhsh** Abbasali Rahimi. The effects of intra-cerebroventricular administration of GPR55 agents, anxiety-related behaviours in the male rats. **Basic and Clinical Neuroscience**. December 18-20, 2013. Tehran, Iran.

**Ali Roohbakhsh**, Bibi Sedigheh Fazly, Sasan Raisian, Golbarg Khorsand, Bizhan Malaekheh-Nikouei. Comparing the Application and Practicality of the Two Websites of the Iranian Journal of Basic Medical Sciences (IJBMS). **Regional Conference on Medical Journals in the Eastern Mediterranean Region (EMMJ6)**. 18-20 February, 2015. Shiraz, Iran,