

CURRICULUM VITAE (CV)

Ali Shamsizadeh



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Personal information

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Date of birth	30/6/1974
Citizenship	IRANIAN
Place of birth	RAFSANJAN (KERMAN PROVINCE)- IRAN
Sex	MALE
Marital status	MARRIED
Child	2

Academic profile

Academic Position	Faculty Member
Academic Degree	Professor
University	Rafsanjan University of Medical Sciences
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Scopus Profile	https://www.scopus.com/authid/detail.uri?authorId=26432361100
Google Scholar Profile	https://scholar.google.com/citations?user=EwPSc44AAAAJ&hl=en
PubMed Articles	65
ISI Articles	67

Education (Academic Training)	
1996 - 2000	B.S. Nursing, School of Medicine, University of Medical Sciences, Rafsanjan, IRAN
2001 – 2004	M.S. Human Physiology, Department Of Physiology, College Of Medicine, Kerman Medical Sciences University, Kerman, IRAN
2004- 2010	PhD, Human Physiology, Department Of Physiology, College Of Medicine, Tarbiat Modares University, Tehran, IRAN

Work experiences & Skills	
2004 - Present	Single unit recording, Immunohistochemistry on brain tissues, Cytochrome Oxidase Staining, Brain Cannulation
2010 - present	University lecturer, department of physiology, Rafsanjan university of medical science, Rafsanjan , IRAN

Research items:	<p>I'd like to study the mechanisms of sensory information (somatosensory) processing in cortex.</p> <p>Especially I'm interested to:</p> <p>1) Studying the role of different afferent inputs in somatosensory response processing.</p>
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2) Effects of activity dependent plasticity on somatosensory response processing.

3) Effects of brain modulatory systems on characteristics of response processing in somatosensory cortex.

Professional Membership

Iranian society of Physiology and pharmacology

Selected Publications (1-64)

1. Zamanian M, Shamsizadeh A, Esmaeili Nadimi A, Hajizadeh M, Allahtavakoli F, Rahmani M, et al. Short-term effects of troxerutin (vitamin P4) on muscle fatigue and gene expression of Bcl-2 and Bax in the hepatic tissue of rats. *Canadian journal of physiology and pharmacology*. 2017;95(6):708-13.
2. Zamanian M, Hajizadeh MR, Esmaeili Nadimi A, Shamsizadeh A, Allahtavakoli M. Antifatigue effects of troxerutin on exercise endurance capacity, oxidative stress and matrix metalloproteinase-9 levels in trained male rats. *Fundamental & clinical pharmacology*. 2017;31(4):447-55.
3. Zamanian M, Hajizadeh M, Shamsizadeh A, Moemenzadeh M, Amirteimouri M, Elshiekh M, et al. Effects of naringin on physical fatigue and serum MMP-9 concentration in female rats. *Pharmaceutical biology*. 2017;55(1):423-7.
4. Mohammadi E, Shamsizadeh A, Salari E, Fatemi I, Allahtavakoli M, Roohbakhsh A. Effect of TPMPA (GABAC receptor antagonist) on neuronal response properties in rat barrel cortex. *Somatosensory & motor research*. 2017;34(2):108-15.
5. Kordi Jaz E, Moghimi A, Fereidoni M, Asadi S, Shamsizadeh A, Roohbakhsh A. SB-334867, an orexin receptor 1 antagonist, decreased seizure and anxiety in pentylenetetrazol-kindled rats. *Fundamental & clinical pharmacology*. 2017;31(2):201-7.
6. Kaviani E, Rahmani M, Kaeidi A, Shamsizadeh A, Allahtavakoli M, Mozafari N, et al. Protective effect of atorvastatin on d-galactose-induced aging model in mice. *Behavioural brain research*. 2017;334:55-60.
7. Jafarzadeh A, Ahangar-Parvin R, Nemat M, Taghipour Z, Shamsizadeh A, Ayoobi F, et al. Ginger extract modulates the expression of IL-12 and TGF-beta in the central nervous system and serum of mice with experimental autoimmune encephalomyelitis. *Avicenna journal of phytomedicine*. 2017;7(1):54-65.
8. Hassanshahi A, Shafeie SA, Fatemi I, Hassanshahi E, Allahtavakoli M, Shabani M, et al. The effect of Wi-Fi electromagnetic waves in unimodal and multimodal object recognition tasks in male rats. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology*. 2017;38(6):1069-76.
9. Hakimizadeh E, Shamsizadeh A, Roohbakhsh A, Arababadi MK, Hajizadeh MR, Shariati M, et al. Inhibition of transient receptor potential vanilloid-1 confers neuroprotection, reduces tumor necrosis

factor-alpha, and increases IL-10 in a rat stroke model. *Fundamental & clinical pharmacology*. 2017;31(4):420-8.

10. Hadadianpour Z, Fatehi F, Ayoobi F, Kacidi A, Shamsizadeh A, Fatemi I. The effect of orexin-A on motor and cognitive functions in a rat model of Parkinson's disease. 2017;39(9):845-51.

11. Ehsani V, Amirteimoury M, Taghipour Z, Shamsizadeh A, Bazmandegan G, Rahnama A, et al. Protective effect of hydroalcoholic extract of *Pistacia vera* against gentamicin-induced nephrotoxicity in rats. *Renal failure*. 2017;39(1):519-25.

12. Bazmandegan G, Boroushaki MT, Shamsizadeh A, Ayoobi F, Hakimizadeh E, Allahtavakoli M. Brown propolis attenuates cerebral ischemia-induced oxidative damage via affecting antioxidant enzyme system in mice. *Neurological research*. 2017;85:503-10.

13. Bannazadeh M, Fatehi F, Fatemi I, Roohbakhsh A, Allahtavakoli M, Nasiri M, et al. The role of transient receptor potential vanilloid type 1 in unimodal and multimodal object recognition task in rats. *Pharmacological reports : PR*. 2017;69(3):526-31.

14. Zare L, Sheikh Fathollahi M, Kazemi Arababadi M, Shamsizadeh A, Daneshpajouh B, Zainodini N, et al. The Association Between C424c/A Polymorphism Within the IL-25 Gene and Multiple Sclerosis. *Iranian Red Crescent medical journal*. 2016;18(9):e25995.

15. Taghizadeh R, Taghipour Z, Karimi A, Shamsizadeh A, Taghavi MM, Shariati M, et al. The expression of HoxB5 and SPC in neonatal rat lung after exposure to fluoxetine. *Drug design, development and therapy*. 2016;10:3323-9.

16. Soltani N, Mohammadi E, Allahtavakoli M, Shamsizadeh A, Roohbakhsh A, Haghparast A. Effects of Dimethyl Sulfoxide on Neuronal Response Characteristics in Deep Layers of Rat Barrel Cortex. *Basic and clinical neuroscience*. 2016;7(3):213-20.

17. Soliemani N, Moslem A, Shamsizadeh A, Azhdari-Zarmehri H. Administration of orexin receptor 1 antagonist into the rostral ventromedial medulla increased swim stress-induced antinociception in rat. *Iranian journal of basic medical sciences*. 2016;19(5):542-9.

18. Shamsizadeh A, Fatehi F, Arab Baniasad F, Ayoobi F, Rezvani ME, Roohbakhsh A. The effect of *Zataria multiflora* Boiss hydroalcoholic extract and fractions in pentylenetetrazole-induced kindling in mice. *Avicenna journal of phytomedicine*. 2016;6(6):597-603.

19. Roohbakhsh A, Shamsizadeh A, Arababadi MK, Ayoobi F, Fatemi I, Allahtavakoli M, et al. Tactile learning in rodents: Neurobiology and neuropharmacology. *Life sciences*. 2016;147:1-8.

20. Hakimizadeh E, Kazemi Arababadi M, Shamsizadeh A, Roohbakhsh A, Allahtavakoli M. The Possible Role of Toll-Like Receptor 4 in the Pathology of Stroke. *Neuroimmunomodulation*. 2016;23(3):131-6.

21. Fatemi I, Shamsizadeh A, Roohbakhsh A, Ayoobi F, Sanati MH, Motevalian M. Increase in mRNA Level of Orexin1 and 2 Receptors Following Induction of Experimental Autoimmune Encephalomyelitis in Mice. *Iranian journal of allergy, asthma, and immunology*. 2016;15(1):20-6.

22. Fatemi I, Shamsizadeh A, Ayoobi F, Taghipour Z, Sanati MH, Roohbakhsh A, et al. Role of orexin-A in experimental autoimmune encephalomyelitis. *Journal of neuroimmunology*. 2016;291:101-9.

23. Alavi MS, Hosseinzadeh H, Shamsizadeh A, Roohbakhsh A. The effect of O-1602, an atypical cannabinoid, on morphine-induced conditioned place preference and physical dependence. *Pharmacological reports : PR*. 2016;68(3):592-7.

24. Mohammadi-Kordkhayli M, Ahangar-Parvin R, Azizi SV, Nemati M, Shamsizadeh A, Khaksari M, et al. Vitamin D Modulates the Expression of IL-27 and IL-33 in the Central Nervous System in Experimental Autoimmune Encephalomyelitis (EAE). *Iranian journal of immunology : IJI*. 2015;12(1):35-49.

25. Jafarzadeh A, Azizi SV, Nemati M, Khoramdel-Azad H, Shamsizadeh A, Ayoobi F, et al. Ginger Extract Reduces the Expression of IL-17 and IL-23 in the Sera and Central Nervous System of EAE Mice. *Iranian journal of immunology : IJI*. 2015;12(4):288-301.

26. Allahtavakoli M, Honari N, Pourabolli I, Kazemi Arababadi M, Ghafarian H, Roohbakhsh A, et al. *Vitex Agnus Castus* Extract Improves Learning and Memory and Increases the Transcription of

- Estrogen Receptor alpha in Hippocampus of Ovariectomized Rats. *Basic and clinical neuroscience*. 2015;6(3):185-92.
27. Allahtavakoli M, Amin F, Esmaeeli-Nadimi A, Shamsizadeh A, Kazemi-Arababadi M, Kennedy D. Ascorbic Acid Reduces the Adverse Effects of Delayed Administration of Tissue Plasminogen Activator in a Rat Stroke Model. *Basic & clinical pharmacology & toxicology*. 2015;117(5):335-9.
 28. Vazirinejad R, Ayooobi F, Arababadi MK, Eftekharian MM, Darekordi A, Goudarzvand M, et al. Effect of aqueous extract of *Achillea millefolium* on the development of experimental autoimmune encephalomyelitis in C57BL/6 mice. *Indian journal of pharmacology*. 2014;46(3):303-8.
 29. Shirazi M, Izadi M, Amin M, Rezvani ME, Roohbakhsh A, Shamsizadeh A. Involvement of central TRPV1 receptors in pentylentetrazole and amygdala-induced kindling in male rats. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology*. 2014;35(8):1235-41.
 30. Shamsizadeh A, Soliemani N, Mohammad-Zadeh M, Azhdari-Zarmehri H. Permanent lesion in rostral ventromedial medulla potentiates swim stress-induced analgesia in formalin test. *Iranian journal of basic medical sciences*. 2014;17(3):209-15.
 31. Rezazadeh H, Hosseini Kahnouei M, Hassanshahi G, Allahtavakoli M, Shamsizadeh A, Roohbakhsh A, et al. Regulatory effects of chronic low-dose morphine on nitric oxide level along with baroreflex sensitivity in two-kidney one-clip hypertensive rats. *Iranian journal of kidney diseases*. 2014;8(3):194-200.
 32. Reisi Z, Haghparast A, Pahlevani P, Shamsizadeh A, Haghparast A. Interaction between the dopaminergic and opioidergic systems in dorsal hippocampus in modulation of formalin-induced orofacial pain in rats. *Pharmacology, biochemistry, and behavior*. 2014;124:220-5.
 33. Jafarinaveh HR, Allahtavakoli M, Rezazadeh H, Kazemi Arababadi M, Taghavi MM, Shamsizadeh A, et al. Proinflammatory cytokines in the embolic model of cerebral ischemia in rat. *Iranian journal of allergy, asthma, and immunology*. 2014;13(2):125-30.
 34. 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. *Iranian journal of medical sciences*. 2014;39(3):261-7.
 35. Haghparast A, Shamsizadeh A, Samandari R, Omranifard A, Vaziri A, Razavi Y. Cannabinoid receptors in the basolateral amygdala are involved in the potentiation of morphine rewarding properties in the acquisition, but not expression of conditioned place preference in rats. *Brain research*. 2014;1565:28-36.
 36. 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. *Pharmacological reports : PR*. 2014;66(1):10-4.
 37. Zeinivand M, Rahmani MR, Allatavakoli M, Shamsizadeh A, Hassanshahi G, Rezazadeh H, et al. Effect of co-administration of morphine and nicotine on cardiovascular function in two-kidney one clip hypertensive (2K1C) rats. *Bosnian journal of basic medical sciences*. 2013;13(3):140-5.
 38. Tahamtan M, Allahtavakoli M, Abbasnejad M, Roohbakhsh A, Taghipour Z, Taghavi M, et al. Exercise preconditioning improves behavioral functions following transient cerebral ischemia induced by 4-vessel occlusion (4-VO) in rats. *Archives of Iranian medicine*. 2013;16(12):697-704.
 39. Shamsizadeh A, Pahlevani P, Haghparast A, Moslehi M, Zarepour L, Haghparast A. Involvement of dopamine receptors within the dorsal hippocampus in suppression of the formalin-induced orofacial pain. *Pharmacology, biochemistry, and behavior*. 2013;114-115:37-42.
 40. Rezazadeh H, Hoseini Kahnuee M, Roohbakhsh A, Shamsizadeh A, Rahmani MR, Bidaki R, et al. Neuroprotective consequences of postconditioning on embolic model of cerebral ischemia in rat. *Iranian journal of basic medical sciences*. 2013;16(2):144-9.
 41. Razavinasab M, Shamsizadeh A, Shabani M, Nazeri M, Allahtavakoli M, Asadi-Shekaari M, et al. Pharmacological blockade of TRPV1 receptors modulates the effects of 6-OHDA on motor and cognitive functions in a rat model of Parkinson's disease. *Fundamental & clinical pharmacology*. 2013;27(6):632-40.

42. Rahmani M, Rajabi S, Allahtavakoli M, Roohbakhsh A, Sheibani V, Shamsizadeh A. The Role of Capsaicin-induced Acute Inactivation of C-fibers on Tactile Learning in Rat. *Iranian journal of basic medical sciences*. 2013;16(2):129-33.
43. Karimi S, Azizi P, Shamsizadeh A, Haghparast A. Role of intra-accumbal cannabinoid CB1 receptors in the potentiation, acquisition and expression of morphine-induced conditioned place preference. *Behavioural brain research*. 2013;247:125-31.
44. Hassanshahi G, Amin M, Shunmugavel A, Vazirinejad R, Vakilian A, Sanji M, et al. Temporal expression profile of CXC chemokines in serum of patients with spinal cord injury. *Neurochemistry international*. 2013;63(5):363-7.
45. Hakimizadeh E, Shamsizadeh A, Nazari M, Arababadi MK, Rezaeian M, Vazirinejad R, et al. Increased circulating levels of CXC chemokines is correlated with duration and complications of the disease in type-1 diabetes: a study on Iranian diabetic patients. *Clinical laboratory*. 2013;59(5-6):531-7.
46. Beheshti Nasr SM, Moghimi A, Mohammad-Zadeh M, Shamsizadeh A, Noorbakhsh SM. The effect of minocycline on seizures induced by amygdala kindling in rats. *Seizure*. 2013;22(8):670-4.
47. Abdollahi SH, Ayoobi F, Khorramdelazad H, Hassanshahi G, Ahmadabadi BN, Rezayati M, et al. Interleukin-10 Serum Levels after Vaccination with In Vivo Prepared Toxoplasma gondii Excreted/Secreted Antigens. *Oman medical journal*. 2013;28(2):112-5.
48. Rajabi S, Shamsizadeh A, Amini H, Shirazi M, Allahtavakoli M, Abbasnejad M, et al. Effect of DSP-4 induced central noradrenergic depletion on tactile learning in rat. *Neurological research*. 2012;34(1):80-4.
49. Khandany BK, Hassanshahi G, Khorramdelazad H, Balali Z, Shamsizadeh A, Arababadi MK, et al. Evaluation of circulating concentrations of CXCL1 (Gro-alpha), CXCL10 (IP-10) and CXCL12 (SDF-1) in ALL patients prior and post bone marrow transplantation. *Pathology, research and practice*. 2012;208(10):615-9.
50. Hakimizadeh E, Oryan S, Hajizadeh Moghaddam A, Shamsizadeh A, Roohbakhsh A. Endocannabinoid System and TRPV1 Receptors in the Dorsal Hippocampus of the Rats Modulate Anxiety-like Behaviors. *Iranian journal of basic medical sciences*. 2012;15(3):795-802.
51. Azin H, Vazirinejad R, Ahmadabadi BN, Khorramdelazad H, Zarandi ER, Arababadi MK, et al. The SDF-1 3'a genetic variation of the chemokine SDF-1alpha (CXCL12) in parallel with its increased circulating levels is associated with susceptibility to MS: a study on Iranian multiple sclerosis patients. *Journal of molecular neuroscience : MN*. 2012;47(3):431-6.
52. Aminzadeh F, Ghorashi Z, Nabati S, Ghasemshirazi M, Arababadi MK, Shamsizadeh A, et al. Differential expression of CXC chemokines CXCL10 and CXCL12 in term and pre-term neonates and their mothers. *American journal of reproductive immunology (New York, NY : 1989)*. 2012;68(4):338-44.
53. Arababadi MK, Pourfathollah AA, Jafarzadeh A, Hassanshahi G, Daneshmandi S, Shamsizadeh A, et al. Non-association of IL-12 +1188 and IFN-gamma +874 polymorphisms with cytokines serum level in occult HBV infected patients. *Saudi journal of gastroenterology : official journal of the Saudi Gastroenterology Association*. 2011;17(1):30-5.
54. Sheikhkanlou-Milan H, Sheibani V, Afarinesh M, Esmacili-Mahani S, Shamsizadeh A, Sepehri G. Effects of electrical stimulation of dorsal raphe nucleus on neuronal response properties of barrel cortex layer IV neurons following long-term sensory deprivation. *Neuroscience bulletin*. 2010;26(5):388-94.
55. Sheibani V, Shamsizadeh A, Afarinesh MR, Rezvani ME. Neonatal capsaicin treatment modulates experience-dependent plasticity in the rat barrel cortex. *The Journal of comparative neurology*. 2010;518(17):3427-38.
56. Sepehri G, Sheibani V, Azarang A, Shamsizadeh A, Afarinesh MR, Azizollahi S, et al. The intracerebroventricular (ICV) administration of W-7, a calmodulin inhibitor, attenuates the development of morphine tolerance in rats. *Pakistan journal of pharmaceutical sciences*. 2010;23(2):170-4.
57. Rezvani ME, Roohbakhsh A, Allahtavakoli M, Shamsizadeh A. Anticonvulsant effect of aqueous extract of Valeriana officinalis in amygdala-kindled rats: possible involvement of adenosine. *Journal of ethnopharmacology*. 2010;127(2):313-8.

58. Arababadi MK, Nosratabadi R, Hassanshahi G, Yaghini N, Pooladvand V, Shamsizadeh A, et al. Nephropathic complication of type-2 diabetes is following pattern of autoimmune diseases? Diabetes research and clinical practice. 2010;87(1):33-7.
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60. Mahmoodi M, Hadad MK, Shamsizadeh A, Azarang A, Rayeni RA. Effect of trifluoperazine on carrageenan-induced acute inflammation in intact and adrenalectomized rats. International journal of physiology, pathophysiology and pharmacology. 2009;1(2):150-3.
61. Allahtavakoli M, Moloudi R, Arababadi MK, Shamsizadeh A, Javanmardi K. Delayed post ischemic treatment with Rosiglitazone attenuates infarct volume, neurological deficits and neutrophilia after embolic stroke in rat. Brain research. 2009;1271:121-7.
62. Afarinesh MR, Sheibani V, Arabzadeh S, Shamsizadeh A. Effect of chronic morphine exposure on response properties of rat barrel cortex neurons. Addiction biology. 2008;13(1):31-9.
63. Shamsizadeh A, Sheibani V, Arabzadeh S, Afarinesh MR, Farazifard R, Noorbakhsh SM, et al. Single whisker experience started on postnatal days 0, 5 or 8 changes temporal characteristics of response integration in layers IV and V of rat barrel cortex neurons. Brain research bulletin. 2007;74(1-3):29-36.
64. Khaksari M, Shamsizadeh A, Azarang A, Mahmoodi M. W-7 (a calmodulin antagonist) inhibits carrageenan-induced paw edema in intact and adrenalectomized rats. Pakistan journal of pharmaceutical sciences. 2007;20(3):195-9.

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