

# Curriculum Vitae

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## Educations

1992-1997 Doctor of Pharmacy (Pharm D)  
School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran  
1998-2005 PhD in Toxicology  
Department of Pharmacology and Toxicology, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran

## Present positions

Associate professor, Department of Pharmacology and Toxicology, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Deputy-Dean in Research, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Faculty member, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

Member of Shahid Beheshti University Research Council

## Work Experiences

2015-present	Editor-in-Chief, Iranian Journal of Pharmaceutical Research
2010-present	Editorial board, Physiology and Pharmacology (Journal)
2003-2004	Postdoc fellow in Dr. Pittman's laboratory, Department of Physiology and Biophysics and Hotchkiss Brain Institute, University of Calgary, Alberta, Canada
1998-2000	Technical advisor in Drug Information Centre, Shahid Beheshti University of Medical Sciences
1998-2000	Member of executive committee and lecturer in Continuous Medical Education (CME) programmes for Physicians and Pharmacists

### **Scholarships and Awards**

2003	Scholarship for 6 months by the Iranian Ministry of Health and Medical Education to continue education abroad towards the PhD degree completion
2006	Travel grant to attend the 4th FAONS Congress, Hong Kong
2007	IBRO financial support to attend IBRO school of neuroscience, Melbourne

### **Membership**

Iranian Medical Council: member

Iranian Society of Physiology and Pharmacology: member, councilor (2012-2013)

Iranian Society of Neuroscience: member, councilor

Society for Neuroscience: member

Iranian Association of Pharmaceutical Scientists: member

### **Research Techniques**

Pharmacological techniques including behavioural tests in animals

Electrophysiological techniques, in particular patch-clamp recording of current and voltage in rat

brain slice

## Research Interests

My research activities focus on the role of cannabinoids in the synaptic pharmacology of many brain regions such as the supraoptic nucleus of the hypothalamus and the dentate gyrus of hippocampus. In addition, we study the interaction between the cannabinoidergic system and the inhibitory GABAergic system in various physiological/pharmacological situations such as seizure, amnesia, anxiety and depression. We also perform behavioral experiments regarding evaluation new compounds which are claimed to produce various pharmacological effects.

## Publications

### Publications in Peer-Reviewed Journals

Hosseinzadeh M, Nikseresht S, Khodaghali F, **Naderi N**, Maghsoudi N. Cannabidiol Post-Treatment Alleviates Rat Epileptic-Related Behaviors and Activates Hippocampal Cell Autophagy Pathway Along with Antioxidant Defense in Chronic Phase of Pilocarpine-Induced Seizure. *Journal of Molecular Neuroscience* (2016) Article in press.

Irannejad H, Nadri H, **Naderi N**, Amini M, Khoobi, M. Anticonvulsant activity of 1,2,4-triazine derivatives with pyridyl side chain: Synthesis, biological, and computational study. *Medicinal Chemistry Research* (2015) 24(6): 2505-2513.

Palmitoylethanolamide attenuates PTZ-induced seizures through CB1 and CB2 receptors. Aghaei I, Rostampour M, Shabani M, **Naderi N**, Motamedi F, Babaei P, Khakpour-Taleghani B. *Epilepsy Res* (2015) 117:23-8.

**Naderi N**, Shafieirad E, Lakpour D, Rahimi A, Mousavi Z. Interaction between Cannabinoid Compounds and Capsazepine in Protection against Acute Pentylenetetrazole-induced Seizure in Mice. (2015) 14(Supplement): 115-120

Rahimi A, Faizi M, Talebi F, Noorbakhsh F, Kahrizi F, **Naderi N**. Interaction between the protective effects of cannabidiol and palmitoylethanolamide in experimental model of multiple sclerosis in C57BL/6 mice. *Neuroscience*. Volume 290, 2015, Pages 279-287.

Pourbadie HG, **Naderi N**, Mehranfard N, Janahmadi M, Khodaghali F, Motamedi F. Preventing effect of L-type calcium channel blockade on electrophysiological alterations in dentate gyrus granule cells induced by entorhinal amyloid pathology. *PLoS One*. 2015 Feb 17;10(2):e0117555.

Mehranfard N, Gholamipour-Badie H, Motamedi F, Janahmadi M, **Naderi N**. Long-term increases in

BK potassium channel underlie increased action potential firing in dentate granule neurons following pilocarpine-induced status epilepticus in rats. *Neurosci Lett.* 2015 Jan 12;585:88-91.

Ahmadi A, **Naderi N**, Daniali M, Kazemi S, Aazami S, Alizadeh N, Nahri-Niknafs B. Synthesis and Pharmacological Evaluation of New Chemical Entities from Ibuprofen as Novel Analgesic Candidates. *Drug Research* (2015) 65(9):457-62.

Forough AS, Farahbakhsh M, **Naderi N**, Fahimi F. Assessment of physicians' response to text alerts in patients with reduced renal function by using a text message alerting system. *International Journal of Pharmacy and Pharmaceutical Sciences.* (2014) 6(8): 545-554.

Hossein G, Keshavarz M, Ahmadi S, **Naderi N**. Synergistic effects of PectaSol-C modified citrus pectin an inhibitor of galectin-3 and paclitaxel on apoptosis of human SKOV-3 ovarian cancer cells. (2013) *Asian Pacific Journal of Cancer Prevention* 14(12) 7561–7568.

Mehranfard N, Gholamipour-Badie H, Motamedi F, Janahmadi M, **Naderi N**. The effect of paxilline on early alterations of electrophysiological properties of dentate gyrus granule cells in pilocarpine-treated rats. *Iran J Pharm Res.* (2014) 13(Suppl):125-32.

Ahmadi A, **Naderi N**, Soury M, Shirkavand F, Nahri B. Synthesis and Antinociception Activity of New Substituted Phenothiazines and Ethylenediamines as Antihistaminic Drugs. *Drug Res (Stuttg)* (2014) Nov;64(11):584-90.

Irannejad H, **Naderi N**, Emami S, Qobadi Ghadikolaei R, Foroumadi A, Zafari T, Mazar-Atabaki A, Dadashpour S. Microwave-assisted synthesis and anticonvulsant activity of 5,6-bisaryl-1,2,4-triazine-3-thiol derivatives. *Med Chem Res* (2014) 23:2503–2514.

Yousefpour M, **Naderi N**, Mansouri Z, Janahmadi M, Alizadeh AM, Motamedi F. The comparison of the effects of acute and repeated morphine administration on fast synaptic transmission in magnocellular neurons of supraoptic nucleus and on urine volume of male rats. *Iranian Journal of Pharmaceutical Research.* 13(3): 975-986.

Shirazi-zand Z, Ahmad-Molaei L, Motamedi F, **Naderi N**. The role of potassium BK-channels in anticonvulsant effect of cannabidiol in pentylenetetrazole and maximal electroshock models of seizure in mice. *Epilepsy Behav.* (2013) 28(1): 1-7.

Soleimani F, Fahimi F, Adimi P, Nadji SA, Morowati S, **Naderi N**, Masjedi MR. The effect of polymorphisms of beta2 adrenoceptors on response to long-acting beta2 agonists in Iranian patients. *Iranian J Allergy Asthma Immun.* (2013) 28;12(4):383-90

Razmi A, Zarghi A, Arfaee S, **Naderi N**, Faizi M. Evaluation of Anti-nociceptive and Anti-inflammatory activities of Novel Chalcone Derivatives. *Iranian Journal of Pharmaceutical Research* (2013) 12(supplement): 149-155.

Adimi Naghan P; Fahimi F; Nadji SA; **Naderi N**; Soleimani F; Masjedi MR. A pilot study of

polymorphism of adrenergic beta2- receptor and mild asthma: A clinical and pharmacogenetic study. Iranian Journal of Pharmaceutical Research (2013) 12(1): 199-204.

Hajikhani R, Ahmadi A, **Naderi N**, Yaghoobi K, Shirazizand Z, Rezaee NM, Niknafs BN. Effect of phencyclidine derivatives on anxiety-like behavior using an elevated-plus maze test in mice. Adv Clin Exp Med. (2012) 21(3):307-12.

Gholamipour-Badie H; **Naderi N**; Khodaghali F; Shaerzadeh F; Motamedi F. L-type calcium channel blockade alleviates molecular and reversal spatial learning and memory alterations induced by entorhinal amyloid pathology in rats. Behavioural Brain Research (2013) 237:190-9.

Sherafat MA, Ronaghi A, Ahmad-Molaei L, Nejadhoseynian M, Ghasemi R, Hosseini A, **Naderi N**, Motamedi F. Kindling-induced Learning Deficiency and Possible Cellular and Molecular Involved Mechanisms. Neurological Sciences (2013) 34: 883-890.

Ahmadi A, Kermani M, **Naderi N**, Hajikhani R, Rezaee N.M., Javadi M and Niknafs B.N. Synthesis and Antinociceptive Behaviors of New Methyl and Hydroxyl Derivatives of Phencyclidine. Current Medicinal Chemistry (2012) 19( 36):763-769.

**Naderi N**, Majidi M, Mousavi Z, Khorami S, Mansouri Z, Khodaghali F. The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin-induced pain related behavior and spinal cord IL1- $\beta$  expression in rats. Neurochem Res (2012) 37(4):778-85.

Yousefpour M, **Naderi N**, Janahmadi M, Alizadeh AM, Motamedi F. Increased synaptic activity in magnocellular neurons of supraoptic nucleus and plasma vasopressin levels due to acute administration of morphine in male rats. Physiology Pharmacology (2011) 14(4): 389-396.

**Naderi N**, Ahmad-Molaei L, Mazar-Atabaki A, Ronaghi A, Shirazi-zand Z, Motiei-Langroudi SM, Eslahkar S. L-Type Calcium Channel Mediates Anticonvulsant Effect of Cannabinoids in Acute and Chronic Murine Models of Seizure. Neurochem Res. (2012);37(2):279-87

**Naderi N**, Ahmad-Molaei L, Aziz Ahari F, Motamedi F. Modulation of anticonvulsant effects of cannabinoid compounds by GABA-A receptor agonist in acute pentylenetetrazole model of seizure in rat. Neurochem Res (2011) 36(8):1520-5.

**Naderi N**, Akhavan N, Aziz Ahari F, Zamani N, Kamalinjad M, Shokrzadeh M, Ahangar N, Motamedi F. Effects of hydroalcoholic extract from *Salvia verticillata* on pharmacological models of seizure, anxiety and depression in mice. Iranian Journal of Pharmaceutical Research (2011) 10(3): 535-545.

Haghparast A, **Naderi N**, Khani A, Lashgari R, Motamedi F. Formalin-induced differential activation of nucleus cuneiformis neurons in the rat: an electrophysiological study. J Pain (2010) 11: 32-43.

Saber-Tehrani A, **Naderi N**, Hosseini Najarkolaei A, Haghparast A, Motamedi F. Cannabinoids and Their Interactions with Diazepam on Modulation of Serum Corticosterone Concentration in Male Mice. Neurochem Res. (2010) 35: 60-66.

Haghparast A, Azizi P, Hassanpour-Ezatti M, Khorrami H, **Naderi N**. Sub-chronic administration of AM251, CB1 receptor antagonist, within the nucleus accumbens induced sensitization to morphine in the rat. *Neurosci Lett*. (2009) 467(1):43-7.

McDonald NA, Kuzmiski JB, **Naderi N**, Schwab Y, Pittman QJ. Endogenous modulators of synaptic transmission: cannabinoid regulation in the supraoptic nucleus. *Prog Brain Res*. (2008) 170:129-136.

**Naderi N**, Aziz Ahari F, Shafaghi B, Hosseini Najarkolaei A, Motamedi F. Evaluation of interactions between cannabinoid compounds and diazepam in electroshock-induced seizure model in mice. *J Neural Transm*. (2008) 115:1501–1511.

Khakpour-Taleghani B, Lashgari R, Aavani T, Haghparast A, **Naderi N**, Motamedi F. The locus coeruleus involves in consolidation and memory retrieval, but not in acquisition of inhibitory avoidance learning task. *Behav Brain Res*. (2008) 189(2):257-262.

**Naderi N**, Haghparast A, Saber-Tehrani A, Rezaii N, Alizadeh AM, Khani A, Motamedi F. Interaction between cannabinoid compounds and diazepam on anxiety-like behaviour of mice. *Pharmacol Biochem Behav*. (2008) 89:64-75.

Haghparast A, Khani A, **Naderi N**, Alizadeh AM, Motamedi F. Repeated administration of nicotine attenuates the development of morphine tolerance and dependence in mice. *Pharmacol Biochem Behav*. (2008) 88(4):385-392.

Salimi M, Ghahremani MH, **Naderi N**, Amini M, Salimi E, Amanlou M, Abdi K, Salehi R, Shafiee A. Design, synthesis and pharmacological evaluation of 4-[2-alkylthio-5(4)-(4-substitutedphenyl)imidazole-4(5)yl]benzenesulfonamides as selective COX-2 inhibitors. *Acta Pharmacol Sin*. (2007) 28(8):1254-1260.

Khodayar MJ, Shafaghi B, **Naderi N**, Zarrindast MR. Antinociceptive effect of spinally administered cannabinergic and  $\alpha_2$ -adrenoceptor drugs on the formalin test in rat: possible interactions. *J Psychopharmacol*. (2006) 20(1):67-74.

Khodayar MJ, Zarindast MR, **Naderi N**, Shafaghi B. Differential antinociceptive effect of yohimbine in rat formalin test. *DARU*, (2005) 13(3): 105-109.

**Naderi N**, Shafaghi B, Khodayar MJ, Zarindast MR. Interaction between gamma -aminobutyric acid GABA<sub>B</sub> and cannabinoid CB1 receptors in spinal pain pathways in rat. *Eur J Pharmacol*. (2005) 514:159-64.

Richard B, Fahimi F, **Naderi N**. Improving risk factors in diabetic patients participating in a weight management program. *Southern Medical Journal*, (2005) 98:496-7.

Shafaghi B, **Naderi N**, Tahmasb L. Anxiolytic effect of *Echium amoenum* in mice. *Iranian Journal of Pharmaceutical Research*, (2002) 1: 37-41.



## Presentations and Published Abstracts

Interaction between cannabinoids and TRPV1 receptor antagonist in acute PTZ-induced seizure in mice. **Naderi N**, Shafieirad E, Lakpour D, Mousavi Z. SfN annual meeting, Washington, DC, USA, 2011.

Interaction between Acute Morphine and Cannabinoid administration on Fast Inhibitory Post Synaptic Transmission of Supraoptic Nucleus Neurons in Rat. **Naderi N**, Yousefpour M, Motamedi F. 7<sup>th</sup> FENS Forum of European Neuroscience, Amsterdam, The Netherlands, 2010.

Cannabinoids can modulate the antiepileptic effect of diazepam in maximal electroshock model of epilepsy in mice. **Naderi N**, Aziz-Ahari F, Shafaghi B, Motamedi F. 6<sup>th</sup> FENS Forum of European Neuroscience, Geneva, Switzerland, 2008.

The investigation of the effect of endocannabinoid's palmitoylethanolamide (PEA) on pentylentetrazol ( PTZ) induced kindling in male rats. Aghaee I, Rostampour M, Motamedi F, Babaei P, Khakpour B, **Naderi N**. 18<sup>th</sup> Iraninan Congress of Physiology and Pharmacology. Mashhad, Iran, 2007.

Effect of morphine on spontaneous activity of neurons in the rat nucleus cuneiformis. Abbas Haghparast , **Nima Naderi**, Fereshteh Motamedi. 18<sup>th</sup> Iraninan Congress of Physiology and Pharmacology. Mashhad, Iran, 2007.

Evaluation of the effects of cannabinoid compounds either alone or in combination with diazepam on anxiety-like behaviour in the mouse hole-board test. Neguin Rezaii, **Nima Naderi**, Abbas Haghparast, Amir-mohammad Alizadeh, Fereshteh Motamedi. 18<sup>th</sup> Iraninan Congress of Physiology and Pharmacology. Mashhad, Iran, 2007.

Chronic administration of nicotine retards the development of morphine dependency and tolerance in mice. Abbas Haghparast, **Nima Naderi**, Abbas Khani, Amir Mohammad Alizadeh, Fereshteh Motamedi. Neuroscience Research, Volume 58, Supplement 1, 2007, Page S65.

Nicotine and morphine interactions; new protocol for morphine dependency in mice. Abbas Khani, Abbas Haghparast, **Nima Naderi**, Amir-Mohammad Alizadeh and Fereshteh Motamedi. Neuroscience Research, Volume 58, Supplement 1, 2007, Page S65.

Interaction between cannabinoid compounds and diazepam on anxiety-like behaviour of mice in the elevated plus maze. **Nima Naderi**; Abbas Haghparast; Neguine Rezaii; Abbas Khani; Fereshteh Motamedi. IBRO World Congress of Neuroscience, Melbourne, Australia, 2007.

Formalin-induced responses of nucleus cuneiformis neurons in the rat: an electrophysiological study. Abbas Haghparast, **Nima Naderi**, Fereshteh Motamedi. IBRO World Congress of Neuroscience, Melbourne, Australia, 2007.

Cannabinoid-mediated suppression of inhibitory synaptic transmission to magnocellular neurons of



supra optic nucleus. **Nima Naderi**, Quentin J Pittman, The 4th Congress of Federation of Asian-Oceanian Neuroscience Societies (FAONS), Hong Kong, 2006.

Effect of Intrathecal administration of cannabinoid and GABA agonists on formalin test in rat. **Nima Naderi**, Bijan Shafaghi, Mohammad Javad Khodayar, Mohammad Reza Zarrindast. 17th Iranian Congress of Physiology and Pharmacology, Kerman University of Medical Sciences, Kerman, Iran, 2005. P490.

The role of spinal beta-2 adrenergic receptors on formalin-induced pain in rat. Bijan Shafaghi, Mohammad Javad Khodayar, **Nima Naderi**, Mohammad Reza Zarrindast. 17th Iranian Congress of Physiology and Pharmacology, Kerman University of Medical Sciences, Kerman, Iran, 2005. P504.

Pittman Q. J., Hirasawa M., **Naderi N.**, Schwab Y. & Sharkey K. A. Dendro-dendritic interactions in networks of hypothalamic neurones. FENS Forum 2004, Lisbon, Abstract A169.4, published in FENS Forum Abstracts, vol. 2, 2004.

Evaluation of possible role of atropine, triazolam and diltiazem in protection against T-2 toxin in mice. **Nima Naderi**, Hasan Yazdanpanah, Hamid Reza Rasekh, Bijan Shafaghi, Farshad Roshanzamir, Khalil Abbasi. First International Congress of Asia Pacific Association of Medical Toxicology (APAMT-1), September 1997, Tehran, Iran, p. 78.