

Curriculum Vitae

Marjan Nassiri-Asl

Professor of Pharmacology

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Personal Details

Date of Birth: 21 Dec 1973

Place of birth: Tehran, Iran

Nationality: Iranian

Marital status: Single

Corresponding address: Department of Pharmacology, Faculty of Medicine,
Qazvin University of Medical sciences

P.O Box: 34197-59811, Qazvin, Iran

Tel: 0283-3336001-6 ext: 3157

Cell phone: 09123138224

Fax: 0283-3336007

E-mail: mnassiriasl@qums.ac.ir

marjannassiriaslm@gmail.com

Education and qualification

1993-1999 Azad University of Medical Sciences, Tehran, Iran, Pharm.D

2003-2004 Training and working on electrophysiological study on
hippocampus of rodent in Toronto Western Hospital, Toronto,
Canada

1999-2005 Department of Pharmacology, Faculty of Medicine, Mashhad

University of Medical Sciences, Iran, Ph.D

Professional experiences

2005-2010 Assistant Professor in Pharmacology

2010-2014 Associate Professor in Pharmacology

2014 up to now Professor of Pharmacology

Positions

2005 Up to now Academic staff, School of Medicine, Department of Pharmacology, Qazvin, Iran

2013 Up to now Head of Department of Pharmacology, Qazvin, Iran

Award

Best researcher award, in 2006 and 2007, 2014, 2016 in Province of Qazvin, Iran

QUMS Best teacher award, 2008, 2011, 2016 in Qazvin, Iran

18th Festival of scholars and technologists award 2017, Tehran, Iran

Research experiences

2005 up to now Supervision of 20 M.D, Msc and Ph.D thesis

2005 up to now Cosupervision of 20 M.D, Msc and Ph.D thesis

2005 up to now

My research interests:

- 1) Study on cognition performance
- 2) Study on neurodegenerative disease (Seizure, Alzheimer,...)

Publications:

Book

- 1) Nassiri Asl M. How to Use Drugs and Drugs Stability. Qums Publisher, Iran, 2006.

- 2) Ziaee A, Zamansoltani F, Abbasi M, **Nassri Asl M.** How to research and write paper. 2008.
- 3) Hosseinzadeh H, Parvardeh S, Sadeghnia HR, **Nassiri Asl M.** Saffron.2009 (Translation to Persian)
- 4) **Nassiri Asl M.**, Zamansoltani F. Neuroscience of Psychoactive Substance Use and Dependence (Publish by WHO, 2004) (Translation to Persian)
- 5) **Nassiri-Asl H.**, Hosseinzadeh H. Glycerihza. In: Genetic Resources, Chromosome Engineering, and Crop Improvement, edited by Sing RJ. Medicinal Crops, Vol 6. CRC Press, New York. 2011.
- 6) **Nassiri Asl M.**, Sadeghnia HR, Hosseinzadeh H. Herbal Products: Toxicology and Clinical Pharmacology. 2nd Ed (Edited by Tracy TS, Kingstone RL, 2007) (Translation to Persian)
- 7) **Nassiri Asl M.**, Hosseinzadeh H. Neuropharmacology effects of saffron (*Crocus sativus*) and its active constituents. In: Bioactive Nutraceuticals and Dietary Supplements in Neurological and Brain Disease: Prevention and Therapy Edited by Ronald Ross Watson and Victor Preedy, Elsevier, 2015.
- 8) Hosseinzadeh H, **Nassiri Asl M.** Neuroprotective Effects of Flavonoids in Epilepsy. In: Neuroprotective Natural Products: Clinical Aspects and Mode of Action. Edited By Goutam Brahmachari, WILEY, 2017

Papers

- 1) **Nassiri-Asl M.**, Hosseinzadeh H, Parvardeh S, Niapoor M. Antinociceptive and anti-inflammatory effects of *Perovskia abrotanoides* extract in mice and rats. J Medicinal Plants 2002; 1(3):25-34.
- 2) Parvardeh S, Hosseinzadeh H, Niapoor M, **Nassiri-Asl M.** Antinociceptive and anti-inflammatory effects of *Pistacia vera* extract in mice and rats. J Medicinal Plants 2002; 1(4):59-68.

- 3) Hosseinzadeh H, Nassiri-Asl M. Anticonvulsant, sedative and muscle relaxant effects of carbenoxolone in mice. BMC Pharmacol 2003; 3: 3.
- 4) Sadeghnia HR, Nassiri-Asl M, Haddadkhodaparast MH, Hosseinzadeh H. The effect of *Salvia leriifolia Benth.* root extracts on lipid peroxidation level during global ischemia-reperfusion in rats. J Medicinal Plants 2003; 2(7):19-25.
- 5) Hosseinzadeh H, Nassiri-Asl M, Parvardeh S, Mansouri SMT. The effects of carbenoxolone on spatial learning in Morris water maze task in rats. Medical Science Monitoring 2005; 11: BR 88-94.
- 6) Hosseinzadeh H, Nassiri-Asl M, Parvardeh S. The effects of carbenoxolone, a semisynthetic derivative of glycyrrhizinic acid, on peripheral and central ischemia-reperfusion injuries in the skeletal muscle and hippocampus of rats. Phytomedicine 2005; 12: 632-637
- 7) Wu CP, Cheung G, Rakshani N, Parvardeh S, Nassiri Asl-M, Haung HL, Zhang L. CA3 neuronal activities of dorsal and ventral hippocampus are differentially altered in rats after prolonged post-ischemic survival. Neuroscience 2005; 130: 527-539.
- 8) Hosseinzadeh H, Parvardeh S, Nassiri-Asl M, Mansouri SMT. Intracerebroventricular administration of thymoquinone, the major constituent of *Nigella sativa* seeds, suppresses epileptic seizures in rats. Medical Science Monitoring 2005: 11:BR 106-110.
- 9) Wu CP, Nassiri-Asl M, Gillis J, Skinner F, Zhang L. An in vitro model of hippocampal sharp waves: Regional initiation and intracellular correlates. J Neurophysiology 2005; 94(1):741-753.
- 10) Wong T, Zhang XL, Nassiri-Asl M, Wu CP, Carlen P, Zhang L. Postnatal development of intrinsic gabaergic rhythms in mouse hippocampus. Neuroscience 2005; 134: 107-120.

- 11) Wu CP, Huang HL, **Nassiri-Asl M**, He JW, Gillis J, Skinner1 FK, Zhang L. Spontaneous rhythmic field potentials of isolated mouse hippocampal-subicular-entorhinal cortices *in vitro*. J Physiology 2006; 576(2): 457-476.
- 12) **Nassiri-Asl M**, Hosseinzadeh H, Mortazavi SR. Effects of berberis vulgaris fruit extracts and its active component, berberine on morphine dependence, hypnosis and locomotor activity in mice. Pharmacologyonline 2007; 1: 190-202.
- 13) Hosseinzadeh H, Parvardeh S, **Nassiri-Asl M**, Sadeghnia HR, Ziaee T. Effect of thymoquinone and Nigella sativa seeds oil on lipid peroxidation level during global cerebral ischemia-reperfusion injury in rat hippocampus. Phytomedicine 2007; 14: 621-627.
- 14) **Nassiri-Asl M**. The effects of carbenoxolone on the contractile responses of the isolated guinea-pig and rat smooth muscles. J Medical Sciences 2007; 7(7): 1103-1107.
- 15) Hosseinzadeh H, Hosseini A, **Nassiri-Asl M**, Sadeghnia HR. Effect of Salvia leriifolia Benth. root extracts on ischemia-reperfusion in rat skeletal muscle. BMC Complementary Alternative Medicine 2007, 7 (1):23.
- 16) **Nassiri-Asl M**, Shariati-Rad S, Zamansoltani F. Anticonvulsant effects of aerial parts of *Passiflora incarnata* extract in mice: involvement of benzodiazepine and opioid receptors. BMC Complementary and Alternative Medicine 2007; 7(1):26.
- 17) **Nassiri-Asl M**, Saroukhani S, Zamansoltani F. Anticonvulsant effects of *Glycyrrhiza glabra* in PTZ-induced seizure in mice. International Journal of Pharmacology 2007; 3(5): 432-434.
- 18) Mortazavi SR, **Nassiri-Asl M**, Farahani-Nick Z, Savad S, Farzam SK. Protective effects of *Fumaria vaillantii* extract on carbontetrachloride induced hepatotoxicity in rats. Pharmacologyonline 2007; 3: 385-393.

- 19) **Nassiri-Asl M.** Home drug store in Minodar region of Qazvin (2006). J of Qazvin University of Medical Sciences 2007; 11(2): 22-26.
- 20) **Nassiri-Asl M.**, Hosseinzadeh H. Review of antiviral effects of *Glycyrrhiza glabra*. J of Medicinal herbal 2007; 6(22):1-12.
- 21) **Nassiri-Asl M.**, Shariati-Rad S, Zamansoltani F. Anticonvulsive effects of intracerebroventricular administration of rutin in rats. Progress in Neuro-Psychopharmacology & Biological Psychiatry 2008; 32:989-993.
- 22) **Nassiri-Asl M.**, Hosseinzadeh H. Review of pharmacological effects of *Glycyrrhiza* sp. and its bioactive compounds. Phytotherapy Research 2008; 22, 709–724.
- 23) Zamansoltani F, **Nassiri-Asl M.**, Karimi R, Mamaghani-Rad P. Hepatotoxicity effects of aqueous extract of *Echium amoenum* in rats. Pharmacologyonline 2008; 1: 432-438.
- 24) **Nassiri-Asl M.**, Zamansoltani F, Zangivand AA. The inhibitory effect of trimethylamine on the anticonvulsant activities of quinine in the pentylenetetrazole model in rats. Progress in Neuro-Psychopharmacology & Biological Psychiatry 2008; 32:1496-1500.
- 25) **Nassiri-Asl M.**, Asefzadeh S. The role of antioxidants in control of hypercoleterolemic and cardiovascular diseases. Journal of Qazvin University of Medical Sciences 2008; 12: 79-88.
- 26) **Nassiri-Asl M.**, Zamansoltani F, Shariati-Rad S. The possible role of GABA_A-benzodiazepine receptor for anticonvulsant effects of Pasipay in rats. Chinese J of Alternative Medicine 2008, 6 (11):1170-3.
- 27) **Nassiri-Asl M.**, Hosseinzadeh H. Review of the pharmacological effects of *Vitis vinifera* (Grape) and its bioactive compounds. Phytotherapy Research 2009; 23(9):1197-204.

- 28) **Nassiri-Asl M**, Zamansoltani F, Torabinejad B. Antiepileptic effects of quinine in the pentylenetetrazole model of seizure. *Seizure* 2009; 11;129-133.
- 29) Ziaee A, Zamansoltani F, **Nassiri-Asl M**, Abassi E. Effects of rutin on lipid profile in hypercholesterolaemic rats. *Basic and Clinical Pharmacological Toxicology* 2009; 104;253-254.
- 30) **Nassiri-Asl M**, Zamansoltani F, Abbasi E, Daneshi MM, Zangivand AA. Effects of *Urtica dioica* extract on lipid profile in hypercholesterolemic rats. *Chinese J of Alternative Medicine* 2009;7(5):428-33.
- 31) Zamansoltani F, **Nassiri-Asl M**, Sarookhani MR, Jahani-Hashemi H, Zangivand AA. Antiandrogenic activities of *Glycyrrhiza glabra* in male mice. *Journal of Andrology* 2009;32: 417-422.
- 32) Aghamirian MR, **Nassiri-Asl M**. Searching *penicillium marneffeii* in the soil of Qazvin city. *Journal of Qazvin University of Medical Sciences* 2009;13:64-69.
- 33) Padisar P, Naseh R, **Nassiri-Asl M**, Hosseinian Z. A study on efficiency of NSAIDs in controlling pain caused by orthodontic treatment. *Journal of Qazvin University of Medical Sciences* 2009;13:70-76.
- 34) **Nassiri-Asl M**, Zamansoltani F, Javadi M, Ganjvar M. The effects of rutin on a passive avoidance test in rats. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 2010;34: 204-207.
- 35) **Nassiri-Asl M**, Abbasi E, Hajiabadi M, Nouri A, Zangivand AA, Saebi S, Hashemi F, Farhoudi H. The interaction between quinine and trimethylamine in the formalin test. *Pharmacologyonline* 2009;3: 1008-1014.
- 36) **Nassiri-Asl M**, Mortazavi SR, Samiee-Rad F, Zangivand AA, Safdari F, Saroukhani S, Abbasi E. The effects of rutin on the development of pentylenetetrazole kindling and memory retrieval in rats. *Epilepsy and Behavior* 2010; 18;50-53.

- 37) Ziaee A, Zamansoltani F, **Nassiri-Asl M**, Hadigol T, Ghasemi M. Study of the hepatoprotective effects of rutin on acetaminophen and carbon tetrachloride - induced liver injury in rats. *Pharmaceutical Sciences*, 2011; 17(1): 35-42.
- 38) **Nassiri-Asl M**, Hosseini SS, Zangivand AA, Rahimi-Baghdashti H, Safdari F. Carbenoxolone, a gap junction blocker, enhances antinociceptive effects of morphine in formalin test in mice. *Pharmacologyonline* 2011;2:185-192.
- 39) **Nassiri-Asl M**, Sarookhani MR, Abbasi E, Zangivand AA, Meh N. The effects of chronic administration folic acid on memory retrieval in rats. *Pharmacologyonline* 2011;3:526-535.
- 40) **Nassiri-Asl M**, Allami A. Attitudes of Qazvin medical studenys to integrate pharmacology in physiopathology course. *J of Education Development in Medical Science* 2011;6 (4): 31-36.
- 41) **Nassiri-Asl M**, Sarookhani MR, Abbasi E, Zangivand AA, Shakiba E, Sedighi A, Rahbari M. The effects of pre-treatment with vitamin B on memory retrieval in rats. *Food Chemistry* 2012; 132:1042-1046.
- 42) Hosseinzadeh H, Taiari S, **Nassiri-Asl M**. Effect of thymoquinone, a constituent of *Nigella sativa* L., on ischemia-reperfusion in rat skeletal muscle. *Naunyn-Schmiedeberg 's Arch Pharmacology* 2012;385: 503-585.
- 43) Abbasi E, **Nassiri-Asl M**, Shafeei M, Sheikhi M. Neuroprotective effects of vitexin, a flavonoid, on pentylenetetrazole-induced seizure in rats. *Chemical Biology and Drug Design* 2012; 80(2):274-278.
- 44) Foroozia M, Adel M, **Nassiri-Asl M**, Masumi P. Comparison of the tissue biocompatibility of Resilon and gutta-percha cones. *Scientific Research and Essays* 2012; 7(12): 1368-1372.
- 45) Kazemifar AM, Hajaghamohammadi AA, Samimi R, Alavi Z, Abbasi E, **Nasiri Asl M**. Hepatoprotective Property of Oral Silymarin is Comparable to N-

Acetyl Cysteine in Acetaminophen Poisoning. *Gastroenterology Research* 2012;5(5):190-194.

46) Hosseinzadeh H, **Nassiri-Asl M**. Avicenna 's (Ibn Sina) the Cannon Of Medicine and saffron (*Crocus sativus*): A review. *Phytotherapy Research* 2013;27(4):475-83.

47) Elmizadeh H, Khanmohammadi M, Ghasemi K, Hassanzadeh G, **Nassiri-Asl M**, Garmarudi AB. Preparation and optimization of chitosan nanoparticles and magnetic chitosan nanoparticles as delivery systems using Box-Behnken statistical design. *Journal of Pharmaceutical and Biomedical Analysis* 2013;80:141-6.

48) Abbasi E, **Nassiri-Asl M**, Sheikhi M, Shafiee M. Effects of vitexin on scopolamine-induced memory impairment in rats. *Chinese Journal of Physiology*. 2013;56(3): 184-189.

49) Aghaee A, Parsa H, **Nassiri Asl M**, Farzam SA, Javadi A, Divanbeig A. Comparison of the Effects of Powdered and Powder-free Surgical Gloves on Postlaparotomy Peritoneal Adhesions in Rats. *Iranian Red Crescent Medical Journal*. 2013; 15(5): 442-443.

50) **Nassiri-Asl M**, Moghbelinejad S, Abbasi E, Yonesi F, Haghghi MR, Lotfizadeh M, Bazahang P. Effects of quercetin on oxidative stress and memory retrieval in kindled rats. *Epilepsy and Behavior* 2013;3:151-155.

51) **Nassiri-Asl M**, Naserpour Farivar T, Abbasi E, Sadeghnia HR, Sheikhi M, Lotfizadeh M, Bazahang P. Effects of rutin on oxidative stress in mice with kainic acid-induced seizure. *Journal of Integrative Medicine* 2013;11(5):337-42.

52) Moghbelinejad S, **Nassiri-Asl M**, Naserpour Farivar TN, Abbasi E, Sheikhi M, Taghiloo M, Farsad F, Samimi A, Hajiali F. Rutin activates the MAPK pathway and BDNF gene expression on beta-amyloid induced neurotoxicity in rats. *Toxicology Letters* 2014;224:108-113

- 53) Asefzadeh S, Alijanzadeh M, Nassiri-Asl M. Correlation between Human Development Index and maternal mortality rate. *Payesh* 2013; 12: 559-566.
- 54) Borhan-Mojabi K, Mirmiran F, Nassiri-Asl M, Nazeman P, Jahanihashemi H. Therapeutic effects of “Ibuprofen, Diphenhydramine and Aluminium MgS” on recurrent aphthous stomatitis: A randomized controlled trial. *Journal of Dentistry of Tehran University of Medical Sciences* 2014; 11 (2);167-171.
- 55) Sadat Motamedshariaty V, Farzad Amel S, Nassiri-Asl M, Hosseinzadeh H. Effects of rutin on acrylamide-induced neurotoxicity. *Daru* 2014; 22:27.
- 56) Hosseinzadeh H, Nassiri-Asl M. Review of the protective effects of rutin on the metabolic function as an important dietary flavonoid. *Journal Endocrinology and Investigation* 2014 Sep;37(9):783-8.
- 57) Haji Seyed Javadi SA, Hajiali F, Nassiri-Asl M. Zolpidem dependency and withdrawal seizure: a case report study. *Iranian Red Crescent and Medical Journal*. 2014 Nov 11;16(11):e19926.
- 58) Saraei M, Samadzadeh N, Khoeini J, Shahnazi M, Nassiri-Asl M, Jahanihashemi H. In vivo anti-Toxoplasma activity of aripiprazole. *Iranian Journal Basic and Medical Sciences* 2015;18: 938-41.
- 59) Hajiali F, Nassiri-Asl M. Report of severe menorrhagia following the maximum amount of lamotrigine overdose. *Iranian Journal of Pharmaceutical Research* 2015 Fall;14(4):1289-93.
- 60) Hosseinzadeh H, Nassiri-Asl M. Pharmacological effects of Glycyrrhiza spp. and its bioactive constituents: Update and Review. *Phytotherapy Research*. 2015; 29(12):1868-86.
- 61) Nozari SH, Azadmehr A, Nassiri-Asl M, Jahanihashemi H, Adine m, Javadi F, Shahnazi M, Saraei M. Ethanol Extracts of Achillea millefolium and Hypericum perforatum Low Anti-Toxoplasma Activity. *Journal of Pharmacopuncture* 2016;19(1); 70-73.

- 62) **Nassiri-Asl M**, Haji-Ali F, Taghiloo M, Abbasi E, Mohseni F, Yousefi F. Comparison between the effects of quercetin on seizure threshold in acute and chronic seizure models. *Journal of Toxicology and Industrial Health* 2016;32(5), 936-944.
- 63) Zakikhan K, Pournasr B, **Nassiri-Asl M**, Baharvand H. Enhanced direct conversion of fibroblasts into hepatocyte-like cells by Kdm2b. *Biochemical and Biophysical Research Communication*. 2016 May 20;474(1):97-103.
- 64) Moghbelinejad S, Rashvand Z, Khodabandehloo F, Mohammadi G, **Nassiri-Asl M**. Modulation of the expression of the GABA_A receptor α_1 and α_3 subunits by pretreatment with quercetin in the KA model of epilepsy in mice. *Journal of Pharmacopuncture* 2016;19(2):163-166.
- 65) Saraei M, Ghaderi Y, Mosavi T, Shahnazi M, **Nassiri-Asl M**, Jahanihashemi H. The effect of fluphenazine and thioridazine on *Toxoplasma gondii* in vivo. *Iranian Journal of Parasitology*, 2016;11(2): 226-23.
- 66) **Nassiri-Asl M**, Hosseinzadeh H. Review of the Pharmacological Effects of *Vitis vinifera* (Grape) and its Bioactive Constituents: An Update. *Phytotherapy Research*. 2016;30(9):1392-403.
- 67) Nozari Sh, Azadmehr A, Adine M, Javadi F, Jahanihashemi H, **Nassiri-Asl M**, Shahnazi, M, Saraei M. In vitro anti-toxoplasma effects of ethanolic extracts of *Artemisia Absinthium* L., *Carum copticum* L. and *Gossypium Hirsutum*. *Journal of Medicinal Plants* 2016;2(57):72-79.
- 68) Shahmohammadi M, Javadi M, **Nassiri-Asl M**. An overview on the effects of sodium benzoate as a preservative in food products. *Biotechnology and Health Sciences* 2016; 3(3): e35084.
- 69) Faridkia Z, Yaghmaei P, **Nassiri-Asl M**. Protective effect of quinine on chemical kindling and passive avoidance test in rats. *Iranian Red Crescent Medical Journal*.2016;18(9): e25490.

- 70) Naserpour Farivar T, **Nassiri-Asl M**, Johari P, Najafipour R, Hajiali F. Quantitative evaluation the effects of kainic acid-induced seizure on gene expression of brain neurotransmitter receptors in mice using RT2 PCR array. *Basic and Clinical Neuroscience*. 2016; 7(4): 291-29.
- 71) Moghbelinejad S, Alizadeh S, Mohammadi G, Khodabandehloo F, Rashvand Z, Najafipour R, **Nassiri-Asl M**. The effects of quercetin on the gene expression of the GABAA receptor 5 subunit gene in a mouse model of kainic acid-induced seizure. *The Journal of Physiological Science* 2017;67(2):339-343.
- 72) Pouragahi S, Sanati MH, Sadeghi M, **Nassiri-Asl M**. Bioinformatics approach for pattern of Myelin-Specific Proteins and related human disorders. *Biotechnology and Health sciences*. 2016; 3(4):e38278.
- 73) Nikfarjam BA, Adineh M, Hajiali F, **Nassiri-Asl M**. Treatment with rutin - A therapeutic strategy for neutrophil-mediated inflammatory and autoimmune diseases *Journal of Pharmacopuncture*. 2017;20(1):52-56.
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- 75) Zakikhan K, Pournasr B, Vosough M, **Nassiri-Asl M**. In vitro generated hepatocyte-like cells: A novel tool in regenerative medicine and drug discovery. *Cell Journal (Yakhteh)*. 2017;19(2): 204-217.
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- 77) Moghbelinejad S, Mohammadi G, Khodabandehloo F, Najafipour R, Naserpour T, Rashvand Z, **Nassiri-Asl M**. The role of quercetin in gene expression

of GluR1 Subunit of AMPA receptors, and NR2A and NR2B subunits of NMDA receptors in kainic acid model of seizure in mice. Iranian Red Crescent Medical Journal. 2017; 19(5):e42415.

78) Sharifi-Ardani M, Yekefallah L, Asefzadeh S, **Nassiri-Asl M**. Efficacy of topical chamomile on the incidence of phlebitis due to an amiodarone infusion in coronary care patients: a double-blind, randomized controlled trial. Journal of Integrative Medicine. 2017 Sep;15(5):373-378.

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Scopus citation:

<https://www.scopus.com/authid/detail.uri?authorId=23968401100>

ORCID

<http://orcid.org/0000-0003-3701-0758>

Linkedin:

www.linkedin.com/in/marjan-nassiri-asl-36b6332b

Publon:

publons.com/a/1189183/