

Curriculum Vitae

CONTACT INFORMATION

Iraj Aghaei

Assistant Professor of Neuroscience, Guilan University of Medical Sciences, Rasht, Iran

No. 26, 5th alley of Shahid Malakotian, Moalem Bolvared, Rasht, Iran

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Researcher ID: L-5070-2017

URL: <http://www.researcherid.com/rid/L-5070-2017>

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PERSONAL INFORMATION

Date of Birth: March 6th, 1974

Place of Birth: Pirkooh

Citizenship: Iranian

Sex: Male Marital: Married

EDUCATION

PhD of neuroscience (2015), Kerman University of medical Sciences, Kerman, Iran

Title of thesis: Examining the effect of pioglitazone on motor, cognitive and electrophysiological properties of Purkinje and CA1 neurons of rat model of hepatic encephalopathy induced by Bile Duct-Ligation (BDL)

M. Sc Medical physiology (2007), Faculty of medicine, Shahid Beheshti University of medical Sciences, Tehran, Iran

Title of thesis: The investigation of the effect of endocannabinoids palmitoylethanolamide (PEA) and its receptors on pentylentetrazol (PTZ) induced kindling in male rats

B. S. Nursing (2000), Mashhad University of medical Sciences, Mashhad, Iran

PROFESSIONAL QUALIFICATIONS

2019- Mashhad	Certificate of "3 rd International Neuroinflammation Congress & Student Festival of Neuroscience"
2019, NBML, Tehran	Seminar on the Application of Brain Mapping in Neuroscience
2019 ISBM Tehran	3 RD IRANIAN SYMPOSIOM ON BRAIN MAPPING UPDATES
2019, NBML, Tehran	A Two Days on " Brain Mapping Techniques"
2019 Rasht	How to read a systematic review article?
2018- Tehran	Certificate of "7 nd Basic and Clinical neuroscience Congress"
2018- Mashhad	Certificate of "2 nd International Neuroinflammation Congress & Student Festival of Neuroscience"
2017- Tehran	Certificate of "6 nd Basic and Clinical neuroscience Congress"
2016- Tehran	Certificate of "5 nd Basic and Clinical neuroscience Congress"
2015- Tehran	Certificate of "4 nd Basic and Clinical neuroscience Congress"
2015- Rasht	Certificate of " Introduction to statistics"
2014- Kerman	Certificate of " Data analysis with SPSS"
2014-Kerman	Certificate of "Brain and Addiction Workshop"
2014- Kerman	Certificate of "How to Write Award Winning Grant Proposals?"
2014- Tehran	Certificate of "3 nd Basic and Clinical neuroscience Congress"
2013-Kerman	Teaching Certificate of " Electrophysiology Workshop (Intracellular Recording or Path Clamp)"
2013-Kerman	Teaching Certificate of " Behavioral Study in Neuroscience Workshop"
2013-Kerman	Certificate of "Electrophysiology Workshop (Extracellular Recording)"
2013-Kerman	Certificate of "Electrophysiology Workshop (Single-Unit Recording)"

2013- Tehran	Certificate of "2 nd Basic and Clinical neuroscience Congress"
2013- Tabriz	Certificate of "21 th Iranian Congress of Physiology and Pharmacology"
2012- Rasht	Certificate of "10 th Iranian Anatomical Sciences Congress, guilan University of Medical Sciences"
2012-Kerman	Certificate of "Electrophysiology Workshop (Intracellular Recording or Path Clamp)"
2012-Kerman	Certificate of "Electrophysiology Workshop (Extracellular Recording)"
2012-Kerman	Certificate of "5 th Electronic Learning Congress in Medical Education"
2012-Kerman	Certificate of "Advanced Writing of Article"
2011-Kerman	Certificate of "Molecular Neuroscience Workshop"
2011-Kerman	Certificate of "Writing of Article"
2007- Mashhad	Certificate of "18 th Iranian Congress of Physiology and Pharmacology"
2007- Tehran	Certificate of "Seconds Symposium of drug abuse and drug dependency(Biological Aspect)"

TECHNICAL SKILLS

Data analysis with SPSS and Excel

Whole cell patch clamp recording and familiar with field potential recording, EEG, ERP, fMRI and TDCS

Cirrhotic Rat Model with Bilateral Duct Ligation (BDL) for hepatic encephalopathy

Intracerebroventricular cannulation using stereotaxic apparatus

Behavioral test for evaluation of seizure in rodents: Electrical and Chemical kindling

Pain evaluating test (Hot plate, formalin, tail flick)

Behavioral test for evaluation of Essential tremor (ET)

Animal model of Parkinson, hepatic encephalopathy, Essential tremor, Pain, Anxiety and PTSD

Auditory startle reflex or Prepulse inhibition (a method for analysis of sensorimotor gating) in rodents

Learning and memory tests (Morris water maze, one and two way avoidance task, conditioning place performance (CPP) ...)/

Open-field test (OFT), Forced swimming test (FST) and tail Suspension test (TST) in mouse and rat (models of depression), Elevated plus-maze (EPM) and Light/dark box test in mouse and rat (model of anxiety), Accelerated Rotarod test for motor learning, motor methods including for Open field, rotarod, wire grip and foot print tests

Teaching Theory and practical physiology for undergraduate students (Nursing, Emergency and Midwifery) at Shahid Beheshti Faculty of Nursing, Guilan university of Medical Sciences- Rasht- Iran (2015-at present)

Teaching practical physiology for undergraduate students (Teaching practical physiology for undergraduate students (Nursing and Midwifery)) at Islamic Azad University of Rasht (2009-2011)

Teaching Electrophysiology Workshop (Intracellular Recording or Patch Clamp), Kerman neuroscience research center, Kerman, Iran (2013)

Teaching Workshop of Behavioral Study in Neuroscience, Kerman neuroscience research center, Kerman, Iran (2013)

Direction of Dissertation/ Thesis

MSc and PhD Advisor and Supervisor

Supervisor for thesis of Resident of Neurosurgery at Guilan University of Medical Sciences: "Effect of hydro alcoholic extract of mountain tea(*Stachys lavandulifolia*) on pentylenetetrazole induced seizure in male mice" Dr Amin Naseri (MD), 2020

Supervisor for thesis of medical doctor at Guilan University of Medical Sciences: "Assessment of Visual Short Term Memory and Response Inhibition before and after a shift, and Sleep Quality in Rasht Teaching Hospital Interns" Dr Ali Dolat (MD), 2020

Consulting advisor for PhD thesis of Neuroscience at Kerman University of Medical Sciences: "Study of changes in motor and cognitive functions in patients with chronic ischemic stroke under treated with transcranial direct current stimulation (tDCS): A clinical trial". Seyed Ahmad Hosseinzadeh Nodehi (PhD) 2019.

Consulting advisor for post graduate thesis of Toxicology at Tehran University of Medical Sciences: "Effect of chronic treatment by morphine (5 days) on PTZ-induced seizure threshold in mice - tolerance and dependence: Role of nitreergic pathway" 2018. Golnaz Zamanian thesis supervised by Professor Ahmad Reza Dehpour.

Consulting advisor for MSC thesis of Medical surgical Nursing at Guilan University of Medical Sciences: "The Association Between Type D Personality With Incidence and Severity of Acute Coronary Syndrome in Patient Referred to Therapeutic and Educational Center Dr Heshmat in Rasht 2018-2019 " Sara Khosh Amoz, 2020

Consulting advisor for MSC thesis of Critical Care Nursing at Guilan University of Medical Sciences: "The survey of knowledge and performance of Emergency medical Technician and related factors in monitoring of the endotracheal tube cuff pressure via manual palpation on manikin, Rasht, 2018". Parviz Pour Azizi (MSc). 2019

Consulting advisor for MSC thesis of Medical surgical Nursing at Guilan University of Medical Sciences: " Survey Prevalence of Pressure Ulcer and its Related Factors in Patients under Mechanical Ventilation Hospitalized in Critical Care Units of Therapeutic and Educational Centers in guilan University of Medical Sciences 2017-2018". Mostafa Soodmand (MSc)

PUBLISHED ARTICLES

Hamid Behzad Nia, Amin Naseri, Mohammadreza Emamhadi, Shervin Ghadarjani, **Iraj Aghaei ***, Ahmad Reza Dehpour. Effect of Hydroalcoholic Extract of *Satchys Lavandulifolia* on Pentylenetetrazole-Induced Seizures in Male Mice: The Role of Gabaergic and Opioidergic Systems. *Basic and Clinical Neuroscience*, 2020, accepted Article

Moosazadeh M, Nabinezhad-Male F, Afshari M, Nasehi MM, Shabani M, Kheradmand M, **Aghaei I***. Vitamin D status and disability among patients with multiple sclerosis: a systematic review and meta-analysis. *AIMS Neurosci*. 2021 Feb 5; 8(2):239-253. doi: 10.3934/Neuroscience.2021013. eCollection 2021. PMID: 33709027

Pourshaikhian, M., Pourazizi, P., Leyli, E.K., **Aghaei, I***. Performance of prehospital emergency medicine staff in tracheal intubation and related factors in Mannequin. *Journal of Mazandaran University of Medical Sciences*, 2020, 30(191), pp. 138–143

Emamhadi M, **Aghaei I***, Noroozi Guilandehi S, Emamhadi R, Shabani M. Successful restoration of knee extension after transferring of the anterior branch of the obturator

nerve: a case study. *Int J Neurosci*. 2021 Feb 21:1-4. doi: 10.1080/00207454.2020.1865948. Online ahead of print. PMID: 33349084

Zamanian G, Shayan M, Rahimi N, Bahremand T, Shafaroodi H, Ejtemaei-Mehr S, **Aghaei I**, Dehpour AR, Interaction of morphine tolerance with pentylentetrazole-induced seizure threshold in mice: The role of NMDA-receptor/NO pathway. *Epilepsy Behav*. 2020 Nov; 112:107343. doi: 10.1016/j.yebeh.2020.107343. Epub 2020 Aug 2. PMID: 32755816

Emamhadi, M., Naseri, A., **Aghaei, I***, Emamhadi, R., Andalib, S. Soleus nerve transfer to deep peroneal nerve for treatment of foot drop, *Journal of Clinical Neuroscience*, 2020 Aug;78:159-163. doi: 10.1016/j.jocn.2020.04.086. Epub 2020 Apr 24. PMID: 32336637

Pourazizi Parviz, **Aghaei Iraj**, Kazemnezhad Leyli Ehsan, Pourshaikhian Majid, Knowledge of Pre-hospital Emergency Medical Technician about Endotracheal Intubation: A Manikin Study, *Journal of Pharmaceutical Research International*, 2019, 1-7

Motahareh Kheradmand, Mahdi Afshari, Mohammad M Nasehi, **Iraj Aghaei**, Mohammad Shabani, Fereshteh Farshidi, Mahmood Moosazadeh, Prevalence of subtypes of multiple sclerosis and the most common clinical symptoms in Iranian patients: A meta-analysis, *Clinical and Experimental Neuroimmunology*, 2019, 10(1), pp. 33–40

Ali Karimi, Kamran Asadi, Kiomars Najafi, Sedigheh Samimian, Hossein Eftehad, **Iraj Aghaei**, Yaser Eyvazi, Amir Nasiri, Frequency of Delirium after Hip Fractures Surgery, *Journal of Mazandaran University of Medical Sciences*, 2019, 29(173), pp. 140–145

Kazemi Roodsari S, Bahramnejad E, Rahimi N, **Aghaei I**, Dehpour AR." Methadone's effects on pentylentetrazole-induced seizure threshold in mice: NMDA/opioid receptors and nitric oxide signaling" *Ann N Y Acad Sci*. 2019 Apr 7.

Aghaei I, Hajali V, Haghani M, Vaziri Z, Moosazadeh M, Shabani M." Peroxisome proliferator-activated receptor- γ activation attenuates harmaline-induced cognitive impairments in rats" *J Clin Neurosci*. 2019 Jan; 59:276-283.

Seyed Ahmad Hosseinzadeh, Shahrzad Mazhari, Kiomars Najafi, Meysam Ahmadi, **Iraj Aghaei**, Masoomeh Niazi, Mohammad Shabani" Impact of Anodic Transcranial Direct Current Stimulation (TCDS) on Changes in Movement and Life-Related Functions in Patients with Chronic Ischemic Stroke: A Clinical Trial" *Entomology and Applied Science Letters* Volume 5, Issue 3, Page No: 13-20

Ranjbar H, **Aghaei I**, Moosazadeh M, Shabani M " Angiotensin II type 1 receptor blocker losartan attenuates locomotor, anxiety-like behavior, and passive avoidance

learning deficits in a sub-chronic stress model" Iran J Basic Med Sci. 2018 Aug; 21(8):856-862 Mazandaran Univ Med Sci 29 (173), 140-145

Soodmand M, Moghadamnia MT, **Aghaei I**, Ghasemzadeh G, Kazemnejad Lili E, Homaie Rad E. " Effects of Hemodynamic Factors and Oxygenation on the Incidence of Pressure Ulcers in the ICU "Adv Skin Wound Care. 2019 Apr 2.

Bahramnejad E, Kazemi Roodsari S, Rahimi N, Etemadi P, **Aghaei I**, Dehpour AR "Effects of Modafinil on Clonic Seizure Threshold Induced by Pentylentetrazole in Mice: Involvement of Glutamate, Nitric oxide, GABA, and Serotonin Pathways" Neurochem Res. 2018 Nov;43(11): 2025-2037.

Tahamtan M, Sheibani V, Shid Moosavi SM, Asadi-Shekaari M, Esmaeili-Mahani S, **Aghaei I**, Shabani M." Pre-Treatment with Erythropoietin Attenuates Bilateral Renal Ischemia-Induced Cognitive Impairments"Iran J Pharm Res. 2018 spring; 17(2):601-612

Masoud Nazeri, Arezoo Ebrahimi, **Iraj Aghaei**, Samaneh Ghotbi Ravandi, Mohammad Shabani " PSYCHOLOGICAL STRESS HAS A HIGHER RATE OF DEVELOPING ADDICTIVE BEHAVIORS COMPARED TO PHYSICAL STRESS IN RAT OFFSPRING" EXCLI Journal 2017;16:903-913.

Iraj Aghaei, Shokouh Arjmand, Shahrokh Yousefzadeh Chabok, Mahdi Tondar, Mohammad Shabani, "Nitric oxide pathway presumably does not contribute to antianxiety and memory retrieval effects of losartan" Behav Pharmacol 2017 May 24

Tahamtan M, Aghaei I, Pooladvand V, Sheibani V, Khaksari M, Shabani M "Characterization of the CA1 pyramidal neurons in rat model of hepatic cirrhosis: insights into their electrophysiological properties". Metab Brain Dis. 2017 Jun; 32(3):881-889.

Aghaei I, Saeedi Saravi SS, Ghotbi Ravandi S, Nozari M, Roudbari A, Dalili A, Shabani M, Dehpour AR. "Evaluation of prepulse inhibition and memory impairments at early stage of cirrhosis may be considered as a diagnostic index for minimal hepatic encephalopathy" Physiol Behav. 2017 May 1; 173:87-94.

Hassan Abbassian, Parisa Esmaeili, Mahshid Tahamtan, **Iraj Aghaei**, Zohreh Vaziri, Benjamin J. Whalley, Vahid Sheibani, Mohammad Shabani," Cannabinoid receptor agonism suppresses tremor, cognition disturbances and anxiety-like behaviors in a rat model of essential tremor" Physiology & Behavior 164 (2016) 314–320

Mahmoudvand H¹, Ziaali N, **Aghaei I**, Sheibani V, Shojaee S, Keshavarz H, Shabani M
“The possible association between Toxoplasma gondii infection and risk of anxiety and
cognitive disorders in BALB/c mice” Pathog Glob Health. 2015 Dec; 109(8):369-76

Mohammadi-Khanaposhtani M, Shabani M, Faizi M, **Aghaei I**, Jahani R, Sharafi
Z, Shamsaei Zafarghandi N, Mahdavi M, Akbarzadeh T, Emami S, Shafiee A, Foroumadi
A “Design, synthesis, pharmacological evaluation, and docking study of new acridone-
based 1,2,4-oxadiazoles as potential anticonvulsant agents” *Eur J Med Chem*. 2016 Apr
13;112:91-8

Iraj aghaei, Vahid Hajali, Ahmad Reza Dehpour, Vahid Sheibani, Masoud Haghani,
Mohammad Shabani “ Alterations in the intrinsic electrophysiological properties of
Purkinje neurons in a rat model of hepatic encephalopathy: Relative preventing effect of
PPAR γ agonist” *Brain Res Bull*. 2016 Mar; 121:16-25

Iraj Aghaei, Mohammad Rostampour, Mohammad Shabani, Nima Naderi, Fereshteh
Motamedi, Parvin Babaei, Behrooz Khakpour-Taleghani " Palmitoylethanolamide
attenuates PTZ-induced seizures through CB1 and CB2 receptors" *Epilepsy Research* 117
(2015) 23–28

Masoud Nazeri, Mohammad Shabani, Samaneh Ghotbi Ravandi, **Iraj Aghaei**, Masoumeh
Nozari , Shahrzad Mazhari “Psychological or physical prenatal stress differentially
affects cognition behaviors” *Physiology & Behavior* 142 (2015) 155–160

Zohreh Vaziri, Hassan Abbassian, Vahid Sheibani, Masoud Haghani, Masoud
Nazeri, **Iraj Aghaei**, Mohammad Shabani “The therapeutic potential of Berberine
chloride hydrate against harmaline-induced motor impairments in a rat model of
tremor” *Neuroscience Letters* 590 (2015) 84–90

Iraj Aghaei, Masoud Nazeri, Mohammad Shabani, Marziehsadat Mossavinasab,
Fatemeh Khaleghi Mirhosseini, Mohsen Nayebpour, Afshin Dalili “Erythropoietin

ameliorates the motor and cognitive function impairments in a rat model of hepatic cirrhosis” *Metab Brain Dis.* 2015 Feb;30(1):197-204.

Aghaei I, Shabani M, Doustar N, Nazeri M, Dehpour AR; “Peroxisome proliferator-activated receptor- γ activation attenuates motor and cognition impairments induced by bile duct ligation in a rat model of hepatic cirrhosis” *Pharmacol Biochem Behav.* 2014 May; 120:133-9

Iraj Aghaei, Babak Bakhshayesh, Hamed Ramezani, Mahmood Moosazadeh, Mohammad Shabani “The relationship between the serum levels of ferritin and the radiological brain injury indices in patients with spontaneous intracerebral hemorrhage” *Iran J Basic Med Sci* 2014; 17:729-734

Mahmood Moosazadeh, Mahtab Movahednia, Nima Movahednia, Mohammadreza Amiresmaili, **Iraj Aghaei** “Determining the frequency of defensive medicine among general practitioners in Southeast Iran” *Int J Health Policy Manag.* 2014 Apr; 2(3): 119–123

Rostampour M, **Aghaei I**, Soltani B, Khakpour B” Effect of *Matricaria chamomilla* Hydro-alcoholic Extract on PTZ-induced Seizure in Male Mice’ *Journal of Guilan University of Medical Sciences* 2014, 23 (89), 8-14

Moosazadeh M, Yegane MY , **Aghaei I**, Mahmoodi S, Mehrzad F, Amiresmaili MR “Medical adverse events during patient’s hospitalization at training Hospitals in Kerman” *Holistic Nursing And Midwifery Journal* 2014, 24 (2) , 68-76

Rahimi N, Gozashti MH, Marefati H, Rahnama K, **Aghaei I**, “Prevalence of Cardiovascular Risk Factors in Diabetic Patients and its Relationship with Opium Consumption” *Journal of Guilan University of Medical Sciences* 2014, 22 (88), 49-57

Ahmadijouybary T, Almasi A, Ataie M, Moosazadeh M, Moradinazar M, **Iraj aghaei** *
“Survey The Effect of two Educational Methods of Work Shop And Speech in Increasing
the Awareness Level of General Practitioner in Continuing Education Programs in
Kermanshah City” Research in Medical Education 2012, 4 (2), 47-53

Research projects

Evaluations of pharmacological blockade of AT1 receptors and role of nitric oxide pathway on passive avoidance learning, anxiety - and depression-like behaviors impairments caused by physical and psychological stress in male rats . This joint project between Road Trauma Research Center of Guilan and Kerman Neuroscience Research Center is running.

Examining of the probably sensorimotor gating deficit in the early stage of cirrhosis as a diagnostic index in the minimal hepatic encephalopathy induced by bile duct ligation

Examining the electrophysiological properties of CA1 Pyramidal neurons in rat of

Examining the effect of Psychological or physical prenatal stress on cognitive behaviors in offspring rats.

Evaluation of anxiety and movement disorders in animal model (mice) with toxoplasma gondii

Examining the effect of pioglitazone on motor, cognitive and electrophysiological properties of Purkinje and CA1 neurons of rat model of hepatic encephalopathy induced by Bile Duct-Ligation (BDL)

PRESENTATION AND PUBLISHED ABSTRACTS

2018 Aghaei I, Tahamtan M, Pooladvand V, Sheibani V, Khaksari M, Shabani M
“Characterization of the CA1 pyramidal neurons in rat model of hepatic cirrhosis:
insights into their electrophysiological properties”. 7nd Basic and Clinical neuroscience

2017 Iraj Aghaei, Masoud Nazeri, Arezoo Ebrahimi, Samaneh Ghotbi Ravandi,
Mohammad Shabani “ PSYCHOLOGICAL STRESS HAS A HIGHER RATE OF
DEVELOPING ADDICTIVE BEHAVIORS COMPARED TO PHYSICAL STRESS IN
RAT OFFSPRING” 6nd Basic and Clinical neuroscience Congress, Tehran, Iran

2016 Iraj Aghaei, Sharokh Yousefzadeh Chabok, Shokoh Arjamand , Mohammad
Shabani “Nitric oxide pathway presumably does not contribute to anti-anxiety and
memory retrieval effects of losartan” 5nd Basic and Clinical neuroscience Congress,
Tehran, Iran

2015 Iraj Aghaei, Ahmad Reza Dehpour, Mohammad Shabani" Can evaluation of
prepulse inhibition and memory impairments at early stage of cirrhosis be as diagnostic
index for minimal hepatic encephalopathy?" 4nd Basic and Clinical neuroscience
Congress, Tehran, Iran

2014 Iraj Aghaei, Ahmad Reza Dehpour, Mohammad Shabani “Erythropoietin
ameliorates the motor and cognitive function impairments in a rat model of hepatic
cirrhosis” 3nd Basic and Clinical neuroscience Congress, Tehran, Iran

2013 Iraj Aghaei, Nikta Doustar Sanaye, Masoud Nazeri, Mohammad Shabani ,Ahmad
Reza Dehpour “The neuroprotective effect of Pioglitazone on memory impairments

Induced by bile duct ligation in a rat model of hepatic cirrhosis” 2nd Basic and Clinical neuroscience Congress, Tehran, Iran

2013 Iraj Aghaei, Mohammad Shabani, Vahid Hajali, Shahrnaz Parsania, Lila Golchin “Walnut consumption protects rats against cisplatin-induced neurotoxicity” 21th Iranian Congress of Physiology and Pharmacology, Tabriz, Iran

2007 Aghaei I, Rostampour M, Motamedi F, Babaei P, Khakpour B, Naderi N

“The investigation of the effect of endocannabinoid’s palmitoylethanolamide (PEA) on pentylenetetrazol (PTZ) induced kindling in male rats “18th Iranian Congress of Physiology and Pharmacology, Mashhad, Iran

2007 Babaei P, Soltani B, NourasFard MR, Aghaei I “CHRONIC PSYCHOSOCIAL STRESS INDUCES HYPERALGESIA IN RATS OF BOTH GENDER” 18th Iranian Congress of Physiology and Pharmacology, Mashhad, Iran

Journal Reviewer

Neuroscientist

Europeans Journal of medicinal Chemistry

Brain Research Bulletin

Biomedicine & Pharmacotherapy

Neuroscience Letters

International Journal of Developmental Neuroscience

International Journal of preventive Medicine (IJPVM)

Basic & Clinical Neuroscience

J Mazandaran Univ Med Sci

J Kordestan Univ Med Sci

Journal of Holistic Nursing and Midwifery

Electromagnetic Biology and Medicine

Irish Journal of Medical Science

Participating in Meeting or Congers

Basic Scientific comity of “2nd International Neuroinflammation Congress & Student Festival of Neuroscience”

Basic Scientific comity of “3rd International Neuroinflammation Congress & Student Festival of Neuroscience”

EMPLOYMENT

2015- Percent Assistant professor of Neuroscience, Guilan University of Medical Sciences, Rasht, Iran

2019- Percent Collaboration with Neuroscience Research Center of Guilan University of Medical Science, Rasht, Iran

2015- Percent Collaboration with Social Determinants of Health Research Center of Guilan University of Medical Science, Rasht, Iran

2002- 2010 Employment of nurse and Nursing Supervisor Jobs in Poursina Hospital, Guilan University of Medical sciences, Rasht, Iran

2015-Percent Collaboration with Social Determinants of Health Research Center and Neuroscience Research Center at Guilan University of Medical Science, Rasht, Iran

2009-2011 Collaboration with Islamic Azad University of Rasht

REFRENSSES

Mohammad shabani, PhD

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