Physiology and Pharmacology Department
Pasteur Institute of Iran
No. 358, 12th Farwardin Ave, Jomhhoori St,Tehran, Iran, Post Code: 1316943551
Tel: +98-21-66968854
gholamipour@gmail.com

ACADEMIC AND RESEARCH EXPERIENCE

Post Doctoral Fellow, Pasteur Institute of Iran **2013-2014**
Under supervision of Prof. M. Sayyah

Ph.D., Physiology, Shahid Beheshti University of Medical Sciences **2008- 2013**
Under supervision of Prof. F. Motamedi

SCIENTIFIC INTERESTS:

- Electrophysiology (Whole-cell Patch-Clamp Recording, Field Potential recording, Single Unit recording)
- Calcium Imaging
- Cell lines and primary Culture, Stem Cell, Transgenic Animal Model, Plasmid preparation.
- PCR, RT-PCR, Western Blot, Co-Immunoprecipitation,
- Behavioral Tests
- Identification of virus-mediated ion channel alterations and effects of ion channel drugs on microbial neuropathology.

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

- International Brain Research Organization (IBRO)
- Society for Neurosciences (SfN)
- Iranian Society of Physiology and Pharmacology (ISPP)
- Iranian Neuroscience Society

DISTINCTIONS:

- Travel award to attend Society for Neuroscinece Meeting, Chicago, USA, 2015.
- Travel award to attend IBRO-APRC Advanced School in Neuroscience, Beijing, China 2011.
- Top Student, Ph.D of Physiology (2012)
- Top Student, MSc of Physiology (2006)
- Fifth Ranked in PhD Exam, Ministry of Health & Medical Education (2008).

TECHNICAL EXPERIENCES:

- Theoretical and Practical Knowledge in Whole Cell Patch Clamp (Current Clamp and Voltage Clamp including Evoked & Spontaneous Excitatory/Inhibitory Postsynaptic Currents, Calcium and Potassium Channel Recordings as well as Active and Passive Membrane Properties.
- Patch clamp on cell line (HEK293, NG108) and primary hippocampal and cortical cells.
- Plasmid preparation, mutagenesis and PCR
- Protein extraction, co-immunoprecipitatoin and western blot
- Preparation of primary cultures and cell lines, use of viral vector for gene transfer
- Theoretical and Practical Knowledge in field potential recording
- Slice Preparation of Hippocampus and Hypothalamus
- Animal Surgery including brain stereotactic surgery in rats
- Behavioral Test on Passive Avoidance Learning by Shuttle Box
- Behavioral Test on Motor Activity and Locomotion by Rota-Rod
- Behavioral Test on Spatial Memory by Morris Water Maze(Reference, Reversal and Working Memory)
- Behavioral Test on Anxiety by Plus Maze
- Behavioral Test on Fear Conditioning
- Photothrombotic model of stroke

PEER REVIEWED JOURNAL PUBLICATIONS

- **Hamid Gholami Pourbadie**, Nima Naderi, Nasrin Mehranfard, Mahyar Janahmadi, Fariba Khodagholi, Fereshteh Motamedi. 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)).

- Fataemeh Etemadi, Mohammad Sayyah, **Hamid Gholami Pourbadie**, Vahab babapour. Assessment of the optimal stimulus pattern to achieve rapid hippocampal kindling in rats. Basic and Clinical Neuroscience (2015).

- Nasrin Mehranfard, **Hamid Gholamipour-Badie**, Fereshteh Motamedi, Mahyar Janahmadi, Nima Naderi. Long-term increases in BK potassium channel underlie increased action potential firing in dentate granule neurons following pilocarpine-induced status epilepticus in rats. Neuroscience letters. 88–91 (2015)

- Nasrin Mehranfard, **Hamid Gholamipour-Badie**, Fereshteh Motamedi, Mahyar Janahmadi, Nima Naderi. The effect of paxilline on early alterations of electrophysiological properties of dentate gyrus granule cells in pilocarpine-treated rats. IJPR. 125-132 (2014).

- Nasrin Mehranfard, **Hamid Gholamipour-Badie**, Fereshteh Motamedi, Mahyar Janahmadi and Nima Naderi. Occurrence of two Types of Granule Cells with Different Excitability in Rat Dentate Gyrus Granule Cell Layer Following Pilocarpine-Induced Status Epilepticus. Annual Research & Review in Biology, (2014).

- **Hamid GholamipourBadie,** NimaNaderi, Fariba Khodagholi, Fatemeh Shaerzadeh, Fereshteh Motamedi. L-type calcium channel blockade alleviates molecular and reversal spatial learning and memory alterations induced by entorhinal amyloid pathology. Behavioural Brain Research. (2013).

- Shirin Babri, **Hamid Gholamipour Badie**, Saeed Khamenie and Mehdi Ordikhani Seyedlar. Intrahippocampal Insulin Improves Memory in a Passive-Avoidance Task in Male Wistar Rats. Brain Cogn.64(1):86-91 (2007).

- Shirin Babri, **Hamid Gholamipour Badie**, Saeed Khamenie,Mehdi Ordikhani Seyedlar and Hadi Ebrahimi. Comparison of Intrahippocampal Insulin Injection on Memory Consolidation in Normal and Diabetic Male Rats. Pharm-Sci. 57-64 (2007).

- Mehdi Ordikhani-seyedlar, Shirin Babri, **Hamid Gholamipour Badie** and Nahid Ghandchilar. Effect of Intrahippocampal Injection of 17-beta Estradiol on Memory Consolidation in the Female Ovariecomized Rats. Pharm-Sci. 35-42 (2007).

ABSTRACTS

- **Hamid Gholami Pourbadie**, Mohammad Sayyah, Baharak Khoshkholgh-sima. Neuroprotective effect of early and specific microglia activation in a rat model of Alzheimer's disease. 22th Congress of Physiology and Pharmacology, Iran, Kashan. Sept. 2015

- **Hamid Gholami Pourbadie**. The sodium leak channel, NACLN, in health and human disease: an electrophysiological perspective. The 1st national congress on electrophysiology. May 2015

- **Hamid Gholamipour Badie**, Nima Naderi, Nasrin Mehranfard, Mahyar Janahmadi, Fariba Khodagholi, Fereshteh Motamedi.L-type calcium channel blockade prevents electrophysiological alterations in dentate gyrus granule cells induced by entorhinal amyloid pathology. 3rd Basic and Clinical Neuroscience Congress, Oct. 2014

- Cochet M, **Gholamipour-Badie H**, Lemmers C, Bidaud I, Nargeot J, Lory P and Monteil A. The NALCN/Unc-80 protein complex is involved in the Amyloid Precursor Protein shedding through anα-secretase-dependent pathway. Journees IGF, France, Séte; 6-8 Feb. 2013

- **Hamid Gholamipour Badie**, Nasrin Mehranfard, Nima Naderi, Fereshteh Motamedi. Administration of Amyloid-β into the Entorhinal Cortex Induces Electrophysiological Abnormalities in the Granule Cells as well as Memory Deficit in Rats. 20th Congress of Physiology and Pharmacology, Iran, Hamadan. Oct. 2011

- Nasrin Mehranfar,**Hamid Gholamipour-Badie**, Nima Naderi, Fereshteh Motamedi. Electrophysiological properties of hippocampal dentate gyrus granule cells in acute phase of pilocarpine model of temporal lobe epilepsy.20th Congress of Physiology and Pharmacology, Iran, Hamadan. Oct. 2011

- **Hamid Gholamipour Badie**, Shirin Babri, Saeed Khameneh, Mehdi Ordikhani. Comparison of Intrahippocampal Insulin Injection on Memory Consolidation in Normal and Diabetic Rats. 19th Congress of Physiology and Pharmacology, Iran, Mashhad. Sept. 2007

- Mehdi Ordikhaniseyedlar, Shirin Babri, **Hamid GholamipourBadie**, Nahid Ghandchilar. Effects of Intrahippocampal Injection of 17-β Estradiol on Memory Consolidation in the Female Ovariectomized Rats. 19th Congress of Physiology and Pharmacology, Iran, Mashhad. Sept. 2007

TEACHING EXPERIENCE

- Physiology, Iran University of Science and Technology, MSc student of biomaterial 2015
- Pharmacology (insulin, Glucagon and Growth hormone), Pasteur Institute of Iran, (PhD student of biotechnology, 2014 and 2015
- Electrochemistry (biological membranes and ion channels), Pasteur Institute of Iran, (PhD student of biotechnology, 2014 and 2015
- Electrophysiological Recording Methods, Physiology and Neuroscience Students.

CONGRESSES, WORKSHOP and SCHOOLS:

- Teaching in the 4thInternational IBRO/APRC Tehran School of Neuroscience, Oct. 17-28, 2014
- Sabbatical fellow, Département de Physiologie, Institut de Génomique Fonctionnelle, CNRS UMR5203, INSERM U661, Universités Montpellier I & II, Montpellier, France, Oct.2012- Apr. 2013
- Teaching in the 2th Tehran School of Neuroscience. May 12-23, 2012
- Participation in the Author Workshop " How To Publish a Scientific Journal Article" conducted by Springer and Edanzat the Tehran University of Medical Sciences, Iran Nov. 2011
- Participation in IBRO-APRC Advanced School in Neuroscience, Beijing, China. Oct. 9-19, 2011
- 20th Congress of Physiology and Pharmacology, Iran, Hamadan. Oct. 2011, Poster presentation
- Participation in Functional Electronic and Electrophysiology Workshop, February 6-8, 2010, Tehran, Iran.
- Participation in Behavioral Neuroscience Workshop "Familiarization to Methods and Modern Software in Behavioral Study Based on Different Maze" Held by Noldus co. January, 16-17, 2011. Tehran, Iran
- Teaching assistant in "Behavioral Study in Neuroscience Research". Neuroscience Research Center. January 16-17, 2011
- Participation in Functional Electronic and Matlab in Electrophysiology Workshop 2011
- 18th Congress of Physiology and Pharmacology, Iran, Mashhad. August 26-30, 2007, Poster presentation.
- Contribution in the preparation of educational film about Morris Water Maze at the Neuroscience Research Center.
- Participation in field potential recording workshop. ShahidBeheshti University of Medical Scienses. Dec. 26, 2010

- Teaching assistant in the Electrophysioloy Workshop "The Procedure of Electrophsiological Recording: Whole Cell Patch Clamp" at Neuroscience Research Center. February 22, 2010, October 4, 2010, and May 30, 2011

- Participation in Electrophysiology Workshop held by the University of TarbiatModares . May 12, 2011

LANGUAGES:

- Persian (Native), English (Satisfactory) , French (Elementary)