



In the name of God

Curriculum Vita Dr. Parviz Shahabi

I. PERSONAL INFORMATION:

Name: Parviz Shahabi

Academic Degree: Ph.D in Physiology

Date of Birth: ۱۹۷۶/۱۰/۳۰

Place of Birth: Tabriz-Iran

Marital Status: Married

University position: Associated professor of physiology department from ۲۰۱۰.

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II. THESIS AND DESERTATION:

M.Sc: The role of amygdala adenosine A₁ receptors on piriform cortex-kindled seizures and piriform kindling rate in rats.

Ph.D: Investigation of the possible role of cortical spreading depression in a seizure model of hippocampus and amygdala in rats

III. ACADEMIC EXPERIENCES:

۱. Executive Committee member of ۱۶th Iranian Congress of Physiology and Pharmacology, Tehran-Iran
۲. Executive Committee member of first Iranian Congress of Epilepsy, Mashad-Iran
۳. Executive Committee member of ۲۱th Iranian Congress of Physiology and Pharmacology, Tabriz-Iran

IV. MEMBERSHIP OF SCIENTIFIC SOCIETIES:

١. International Brain Research Organization (IBRO)
٢. Iranian Society of Physiology and Pharmacology
٣. Iranian Society of Neuroscience

V. RESEARCH EXPERIENCES:

- Electrical Kindling Model of Epilepsy
- Stereotaxic Surgery of Rat and monkey Brain
- Deep Brain Stimulation
- Field Potential Recording (*in vivo –in vitro*)
- Intracellular Recording (*In vivo-In vitro*)
- EEG Recording in Rat and Monkey

VI. PUBLICATIONS

JOURNAL PAPERS

International Papers

١. **P. Shahabi**, J. Mirnajafi-zadeh, Y. Fathollahi, N. Hosseinmardi, ME Rezvani, A. Eslamifar, Amygdala adenosine A₁ receptors have no anticonvulsant effect on piriform cortex-kindled seizures in rat, *Can J Physiol Pharmacol*. ٢٠٠٦ Aug-Sep; ٨٤(٨-٩):٩١٣-٢١.
 ٢. N. Hosseinmardi, J. Mirnajafi-zadeh, Y. Fathollahi, **P. Shahabi**, The role of adenosine A₁ and A_{٢A} receptors of entorhinal cortex on piriform cortex kindled seizures in rats, *Pharmacol Res*. ٢٠٠٧ Aug; ٥٦(٢):١١٠-٧.
 ٣. A Gorji, C Mittag, **P shahabi**, T Seidenbecher, HC Pape. Seizure-related activity of intralaminar thalamic neurons in a genetic model of absence epilepsy. *Neurobiol Dis*. ٢٠١١ March; ٤٣: ٢٦٦-٢٧٤.
 ٤. Sadighi M, **Shahabi P**, Oryan S, Pakdel FG, Asghari M, Pshapour A. Effect of low frequency electrical stimulation on spike and wave discharges of perioral somatosensory cortex in WAG/Rij rats. *Pathophysiology*. ٢٠١٣ Jun; ٢٠(٣):١٧١-٦
 ٥. Eickhoff M^١, Kovac S^٢, **Shahabi P^٣**, Ghadiri MK^٤, Dreier JP^٥, Stummer W^٤, Speckmann EJ^٦, Pape HC^١, Gorji A^٧. Spreading depression triggers ictal activity in partially disinhibited neuronal tissues. *Exp Neurol*. ٢٠١٤ Mar; ٢٥٣:١-١٥.
 ٦. Jahanbani M, Nasri S, Ghaderi Pakdel F, Cunkurt U, **Shahabi P**, Amirabadi S, Naderi S, Ashrafi M. The effect of acute intra Locus Coeruleus (LC) microinfusion of bupropion on formalin induced pain behavior in rat. *Basic and Clinical Neuroscience*. ٢٠١٤ winter; ٣١-٤١.
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٧. M. Sadighi, **P. Shahabi**, A. Gorji, F. Ghaderi Pakdel, G. Ghamkhari Nejad, and A. Ghorbanzade. Role of L- and T-Type Calcium Channels in Regulation of Absence Seizures in Wag/Rij Rats. *Neurophysiology*, ٢٠١٣ Jul; ٣١٢-٣١٨.
٨. F. G. Pakdel, S. Amirabadi, S. Naderi, M. A. Osalou, U. Cankurt, M. Jahanbani, **P. Shahabi**. Effects of Acute Intracerebroventricular Microinfusions of Bupropion on Background Spike Activity of *Locus Coeruleus* Neurons in Rats, *Neurophysiology*, ٢٠١٤ Aug; ٤٦(٤): ٣١٦-٣٢٢.
٩. Amirabadi S, Pakdel FG, **Shahabi P**, Naderi S, Osalou MA, Cankurt U. Microinfusion of bupropion inhibits putative GABAergic neuronal activity of the ventral tegmental area, *Basic Clin Neurosci*. ٢٠١٤ Summer; ٥(٣): ١٨٢-٩٠.
١٠. R Aghazadeh, **P Shahabi**, J Frounchi, M Sadighi. An autonomous real-time single channel detection of absence seizures in WAG/Rij rats. *Gen Physiol Biophys*. ٢٠١٥ Jul; ٣٤(٣): ٢٨٥-٩١.
١١. Es'haghi F, **Shahabi P**, Frounchi J, Sadighi M, Yousefi H. Investigation of ECG Changes in Absence Epilepsy on WAG/Rij Rats. *Basic Clin Neurosci*. ٢٠١٥ Apr; ٦(٢): ١٢٣-٣١.
١٢. Taghipour-Farshi H, Frounchi J, Ahmadiasl N, **Shahabi P**, Salekzamani Y. Effect of contacts configuration and location on selective stimulation of cuff electrode. *Biomed Mater Eng*. ٢٠١٥; ٢٥(٣): ٢٣٧-٢٨.
١٣. Ghamkhari Nejad G, **Shahabi P**, Alipoor MR, Ghaderi Pakdel F, Asghari M, Sadighi Alvandi M. Ethosuximide Affects Paired-Pulse Facilitation in Somatosensory Cortex of WAG/Rij Rats as a Model of Absence Seizure. *Adv Pharm Bull*. ٢٠١٥ Nov; ٥(٤): ٤٨٣-٩.
١٤. Zanjani S, Babil F, Mohammadi M, Chodadi L.b, Abbasi M.c, Mohammadzaeh M.d, Nazemi S.d, **Shahabi P**. Effect of testosterone on intracellular signaling pathway of angiogenesis in sciatic nerve of male diabetic rats. *Biomed and Pharm J*. Volume ٨, Issue ٢, ٢٠١٥, ٨٢٣-٨٢٩.
١٥. Ghorbanzade A, **Shahabi P**, Pakdel F.G, Ebrahimi H., Sadighi M., Oskouei, B.S, Yousefi, H. Effect of metabotropic glutamate receptors II /III agonists on spike-wave discharge in primary somatosensory perioral cortex of male WAG/Rij rats. *Biosci Biote Res Asia* Volume ١٢, ٢٠١٥, ٦٥-٧٠.
١٦. Nejad, G.G, Vastyanov, R.S, **Shahabi P**, Alipoor M.R, Pakdel, F.G. Abnormalities in the GABAergic Inhibitory System Leading to the Development of Spike-Wave Discharges in

the Somatosensory Cortex of Wag/Rij Rats. *Nerophysiol.* Volume ۴۷, Issue ۶, ۱
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۱۷. Taghipour-Farshi H, Frounchi J, Ahmadiasl N, **Shahabi P**, Salekzamani Y. Assessment on selectivity of multi-contact cuff electrode for recording peripheral nerve signals using Fitzhugh-Nagumo model of nerve excitation. *J Back Musculoskelet Rehabil.* ۲۰۱۶ Nov ۲۱;۲۹(۴):۷۴۹-۷۵۶.
۱۸. Abbasi S, Abbasi A, Sarbaz Y, **Shahabi P**. Contribution of Somatic and Dendritic SK Channels in the Firing Rate of Deep Cerebellar Nuclei: Implication in Cerebellar Ataxia. *Basic Clin Neurosci.* ۲۰۱۶ Jan;۷(۱):۵۷-۶۱.
۱۹. Hosseinpour M, Azimirad V, Alimohammadi M, **Shahabi P**, Sadighi M, Ghamkhari Nejad G. The cardiac effects of carbon nanotubes in rat. *Bioimpacts.* ۲۰۱۶;۶(۲):۷۹-۸۴.
۲۰. Sadeghzadeh Oskouei B, Pashaiasl M, Heidari MH, Salehi M, Veladi H, Ghaderi Pakdel F, **Shahabi P**, Novin MG. Evaluation of Mouse Oocyte In Vitro Maturation Developmental Competency in Dynamic Culture Systems by Design and Construction of A Lab on A Chip Device and Its Comparison with Conventional Culture System. *Cell J.* ۲۰۱۶ Jul-Sep;۱۸(۲):۲۰۵-۱۳.
۲۱. Nameni G, Hajiluian G, **Shahabi P**, Farhangi MA, Mesgari-Abbasi M, Hemmati MR, Vatandoust SM. The Impact of Vitamin D Supplementation on Neurodegeneration, TNF- α Concentration in Hypothalamus, and CSF-to-Plasma Ratio of Insulin in High-Fat-Diet-Induced Obese Rats. *J Mol Neurosci.* ۲۰۱۶ Dec ۶.
۲۲. Ebrahimzadeh M, **Shahabi P**, Mohaddes G, Babri S, Mohammadi, M, Moslem A, Mohammad-Zadeh M. Effect of testosterone on memory and BDNF levels of hippocampus in gonadectomized diabetic rats. *Biosci Biotech Res Asia.* ۱۲, Issue ۳, December ۲۰۱۵, ۲۴۳۳-۲۴۴۰.
۲۳. Zargari, S.a , Veladi, H.a, Sadeghzadeh, B.b, **Shahabi, P.c**, Frounchi, J.d A microfluidic chip for in vitro oocyte maturation. *Sensor Let.* Volume ۱۴, Issue ۴, April ۲۰۱۶, ۴۳۵-۴۴۰.
۲۴. Nameni G, Hajiluian G, **Shahabi P**, Farhangi MA, Mesgari-Abbasi M, Hemmati MR, Vatandoust SM. The Impact of Vitamin D Supplementation on Neurodegeneration, TNF- α

Concentration in Hypothalamus, and CSF-to-Plasma Ratio of Insulin in High-Fat-Diet-Induced Obese Rats. *J Mol Neurosci.* ۲۰۱۷ Feb;۶۱(۲):۲۴۷-۲۵۵.

۲۵. Nameni G, Farhangi MA, Hajiluian G, **Shahabi P**, Abbasi MM. Insulin deficiency: A possible link between obesity and cognitive function. *Int J Dev Neurosci.* ۲۰۱۷ Jun;۵۹:۱۵-۲۰.
۲۶. Badri O, **Shahabi P**, Abdolalizadeh J, Alipour MR, Veladi H, Farhoudi M, Zak MS. Combination therapy using evening primrose oil and electrical stimulation to improve nerve function following a crush injury of sciatic nerve in male rats. *Neural Regen Res.* ۲۰۱۷ Mar;۱۲(۳):۴۵۸-۴۶۳.
۲۷. Farhangi MA, Mesgari-Abbasi M, Hajiluian G, Nameni G, **Shahabi P**. Adipose Tissue Inflammation and Oxidative Stress: the Ameliorative Effects of Vitamin D. *Inflammation.* ۲۰۱۷ Oct;۴۰(۵):۱۶۸۸-۱۶۹۷.
۲۸. Aghdam AM, **Shahabi P**, Karimi-Sales E, Ghiasi R, Sadigh-Eteghad S, Mahmoudi J, Alipour MR. Swimming Exercise Induced Reversed Expression of miR-۹۶ and Its Target Gene NaV۱,۳ in Diabetic Peripheral Neuropathy in Rats. *Chin J Physiol.* ۲۰۱۸ Apr ۳۰;۶۱(۲):۱۲۴-۱۲۹.
۲۹. Morshedi M, Valenlia KB, Hosseinifard ES, **Shahabi P**, Abbasi MM, Ghorbani M, Barzegari A, Sadigh-Eteghad S, Saghafi-Asl M. Beneficial psychological effects of novel psychobiotics in diabetic rats: the interaction among the gut, blood, and amygdala. *J Nutr Biochem.* ۲۰۱۸ Apr ۳;۵۷:۱۴۵-۱۵۲

National Papers:

۱. Ghamkharnejad Gh; **Shahabi P***; Sadighi M; Sadeghzadeh B. The Possible Role of Cortical Spreading Depression on Seizure Induction in Rat Lateral Amygdala. *Journal of Ardabil University of Medical Sciences*, Spring ۲۰۱۴, Pages ۳۷-۴۶
۲. **P. Shahabi**, A. Gorji, Y. Fathollahi, M. Janahmadi, SJ. Mirnajafi-Zadeh, Electrophysiological characteristics of hippocampal CA¹ neurons due to spreading depression-triggered epileptic activity in brain slices. *Physiology and Pharmacology*, ۲۰۱۱; ۱۰ (۱), ۱-۱۰
۳. **P. Shahabi**, A. Gorji, Y. Fathollahi, M. Janahmadi, SJ. Mirnajafi-Zadeh, H. Kazemi, Interrelation of spreading depression and epileptiform burst in the lateral amygdala, *Sabzevar Journal*, ۲۰۱۱; ۱۸(۳) ۱۴۸-۱۵۷

- ξ. **P. Shahabi**, SH Babri, M Shahsavari. Effects of Transient and Permanent Inhibition of the Amygdala on Acquisition of Piriform Cortex Kindled Seizures in Rats, *Medical Journal of Tabriz University*, Vol ۲۲, No ۲(۲۰۰۷).
- ο. N. Hosseinmardi, J. Mirnajafi-Zadeh, Y. Fathollahi, **P. Shahabi**, M.E. Rezvani, M. Zeraati, Effect of intra-entorhinal cortex microinjection selective adenosine A_{1A} receptors agonist on piriform cortex kindled seizures in rat, *Physiology and Pharmacology*, ۹ (۲۰۰۵) ۴۱-۴۶.
- ϒ. ME Rezvani, J Mirnajafi-Zadeh, Y Fathollahi, M.R Palizvan, N Hosseinmardi, **P Shahabi**, Effect of adenosine A₁ receptor activity of piriform cortex neurons on amygdala kindled seizure in rat, *Yakhteh*, ۶ (۲۰۰۵) ۱۸۸-۱۹۳.
- ϣ. S. Namvar, , J. Mirnajafi-zadeh, Y. Fathollahi, ME Rezvani, **P. Shahabi**, N. Hosseinmardi, Effect of piriform Adenosine A₁ receptor on hippocampus kindled seizure in rat, *Journal of Iran University of Medical Sciences*, (۲۰۰۶),).
- λ. N. Hosseinmardi, J. Mirnajafi-zadeh, Y. Fathollahi, **P. Shahabi**, M.E. Rezvani, S. Namvar, M.R. Palizvan, Effect of intra-entorhinal cortex microinjection selective adenosine A₁ receptors agonist on piriform cortex kindled seizures in rat, *Medical Journal of Kousar*, ۱۰ (۲۰۰۵) ۱۰۳-۱۱۰.

ABSTRACTS IN CONGRESS

۱. J Mirnajafi-Zadeh, N. Hosseinmardi, **P Shahabi**, Effect of intraentorhinal microinjection of selective A_{1A} receptor agonist on piriform cortex kindled seizures in rats, The ۲th Annual Meeting of the Japan neuroscience Society (۲۶-۲۸ July ۲۰۰۵, Yokohama, Japan).
۲. J Mirnajafi-Zadeh, **P Shahabi**, Y Fathollahi, N. Hosseinmardi, P Shahabi, Adenosine A₁ receptors of amygdala have no anticonvulsant effects on piriform cortex kindled seizures in rats, ۲th International Epilepsy Congress (۲nd August-۱ September ۲۰۰۵, Paris, France).
۳. **P Shahabi**, J Mirnajafi-Zadeh, Y Fathollahi, Effect of amygdala neuronal lesion on piriform cortex kindled seizure severity in rats, ۱st Iranian Congress of Physiology and Pharmacology (۱-۴ October ۲۰۰۵, Kerman, Iran).
۴. ME Rezvani, J Mirnajafi-Zadeh, Y Fathollahi, N Hosseinmardi, **P Shahabi**, MR Palizvan, Effect of piriform cortex adenosine A₁ receptors on amygdala kindled seizures in rats, ۱st Iranian Congress of Physiology and Pharmacology (۱-۴ October ۲۰۰۵, Kerman, Iran).

۴. N Hosseinmardi, J Mirnajafi-Zadeh, Y Fathollahi, **P Shahabi**, Effect of intraentorhinal injection of selective A γ A receptor agonist on piriform cortex kindled seizures in rats, The ۶th Congress of the Federation of Asian and Oceanian Physiological Societies (۱۵-۱۸ October ۲۰۰۶, Seoul, Korea).
۵. **P Shahabi**, A Gorji, , Y Fathollahi, J Mirnajafi-Zadeh. Intracellular characteristics of neurons in epileptic activity triggered by spreading depression in brain slices of the rat, first Iranian Congress of Epilepsy (Dec ۱۰-to Dec ۱۳ ۲۰۱۰, Mashhad, Iran).
۶. **Parviz Shahabi**, Ali Gorji, Christoph Mittag, Thomas Seidenbecher, mina sadighi. Seizure-related activity of intralaminar thalamic neurons in a genetic model of Seizure-related activity of intralaminar thalamic neurons in a genetic model of absence epilepsy. (۲th Iranian Congress of Physiology and Pharmacology (۱۰-۱۴ October ۲۰۱۱, Hamedan, Iran).
۷. Mina Sadighi, **Parviz Shahabi**. The Role of T- type Calcium Channels in Regulation of Absence Seizure in S λ po area of WAG/ Rij. ۲۱th Iranian Congress of Physiology and Pharmacology (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۸. Mina Sadighi, **Parviz Shahabi**, Ghazaleh Ghamkhari nejad, Mahdi Vatandoust, Abutaleb Ghorban zahed. Investigation of the possible role of cortical spreading depression in a seizure model of amygdale in rats. ۲۱th Iranian Congress of Physiology and Pharmacology (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۹. Ghazaleh Ghamkhari nejad, **Parviz Shahabi**, Mina Sadighi. The possible effect of cortical spreading depression in epileptic slices of hippocampus in male Wistar rats. ۲۱th Iranian Congress of Physiology and Pharmacology (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۱۰. Mina Hosseinpour, Vahid Azimirad , **Parviz Shahabi**, Mina Sadighi, Homeira Hatami, Abutaleb Ghorbanzadeh. Investigating effect of carbon nanotubes on the memory. ۲۱th Iranian Congress of Physiology and Pharmacology (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۱۱. Maryam Alimohammadi, Vahid Azimirad, **Parviz shahabi**, Mina Sadighi. ,Experimental study of EEG signals classification in hand movement. ۲۱th Iranian Congress of Physiology and Pharmacology (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).

۱۳. Somayyeh Naderi, Mostafa Ashrafi Osalou, Sanaz Amirabadi, Marzieh Jahanbani, Ulker Cankurt, **Parviz Shahabi**. Intra-VTA bupropion can sensitize the VTA dopaminergic neurons to systemic naloxon. *۲۱th Iranian Congress of Physiology and Pharmacology* (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۱۴. Sepideh Samadi, Sanaz Amirabadi, Marzieh Jahanbani, Ulker Cankurt, Mostafa Ashrafi Osalou, **Parviz Shahabi**. The effects of intracerebroventricular (ICV) infusion of bupropion on Ventral Tegmental Area (VTA) dopaminergic neurons in rat. *۲۱th Iranian Congress of Physiology and Pharmacology* (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۱۵. Sanaz Amirabadi, Mostafa Ashrafi Osalou, Somayyeh Naderi, Marzieh Jahanbani, Ulker Cankurt, **Parviz Shahabi**. The effects of bupropion on Ventral Tegmental Area (VTA) dopaminergic neuronal firing rates in morphine dependent rats. . *۲۱th Iranian Congress of Physiology and Pharmacology* (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).
۱۶. Mostafa Ashrafi Osalou, Sanaz Amirabadi, Marzieh Jahanbani, Somayyeh Naderi, Ulker Cankurt, **Parviz Shahabi**. The acute intra-Ventral Tegmental Area (VTA) bupropion can change the firing rate of dopaminergic neurons - Single Neuron Extracellular Recording. *۲۱th Iranian Congress of Physiology and Pharmacology* (۲۳-۲۷ August ۲۰۱۳, Tabriz, Iran).

VII. Research Projects:

۱. The role of voltage dependent Ca^{2+} channel and low frequency electrical stimulation in perioral somatosensory cortical area in absence seizure
۲. Comparison of antiepileptic effects of lamotrigine with high frequency stimulation and group II/III metabotropic glutamate receptors on perioral somatosensory region in male WAG/Rij Rat
۳. Investigation of synaptic plasticity induced by GABAA inhibitory enhancement in the cortex of WAG/Rij rats
۴. Design and Implementation of a hardware system to early detection of epileptic seizure onset from electroencephalography signals

- . Design and hardware implementation of a hardware system for early detection of epileptic seizure onset from electrocardiography signals
- ∩. The effect of astaxanthin, selenium and electrical stimulation on the expression of Catsper^{1,2}, sperm parameters and repair of spinal cord injury in rats
- ∪. Effect of electrical stimulation on in vivo conversion of GFP labeled astrocyte to neuroblast in injured spinal cord of male rats
- ∧. The effect of spinal cord injury on motor skill learning, brain rhythms and dopamine level in primary motor cortex of rat

VIII. COURSES TAUGHT:

Cell Physiology:

Basic Electrophysiology

Membrane Transport

Signal Transduction

Skeletal and Smooth Muscle

Physiology of Nervous System:

Human Physiology of Nervous System

Synaptic Transmission-Chemical and electrical Synapses

General Physiology

IX. Training Courses

- 1. Neural Circuit Research Course in **Riken Institute in Japan (3 month)**, 2010
- 2. Brain Research course in **Münster University in Germany (one year)**, 2011
- 3. International Brain research organization (**IBRO**) school of neuroscience in **Thailand**, July 23-27, 2007

٤. The workshops of: ١-Application of Statistical Methods, ٢-Scientific Writing Skills, and ٣- Research Methods; Tabriz University By Prof. Khameneh, Prof. Nahali, Tabriz Iran.

May ٣-٩, ٢٠٠٦

٥. Patch Clamp pre congress workshop and developmental Neuroscience, Tarbiat Modares University by Prof. Alasdair Gibb, Tehran, Iran, May ٤ - ٨, ٢٠٠٣

٦. IBRO course in Neuroscience, Tarbiat Modares University, Tehran, Iran, Februarys ٤ - ١٣, ٢٠٠٢

٦. Second Iranian Neurosciences Congress workshop in Tarbiat Modares University, Tehran, Iran, October ٢٩ - ٣١, ٢٠٠٢

X. Computer Skills

International Computer Driver License (ICDL)

XI. Honors

Number one in MSc. Exam in Iran.

XII. Inventions

Spinal cord injury Impactor