

## Curriculum Vita

Prof. Vahid Sheibani

Head of Department

Faculty Medicine » Department Physiology and Pharmacology



Research in our laboratory is focused on various issues including determining the neuro-anatomical connections between brain areas, sensory processing, and electro-physiological characteristics of barrel cortex in rat.

Also we follow the research on "pain" to better understanding the neural substrates involved in neuropathic pain as well as exploring the effects of different medication for this disorder. We have expanded our studies in the field of sleep research and the impact of sleep deprivation on learning and memory.

Furthermore, by collaboration with RIKEN Institute and Monash University, we have recently established a high-standard cognitive research center. We are studying on primates model of addiction, higher functions of brain such as emotion, working memory, decision-making, and so on.

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### Contacts information

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### Educations

Shaheed Beheshti University of Medical Sciences, Tehran, Iran

Master Degree Physiology Thesis: Effect of REM Sleep Deprivation on Memory Retention of Rat with Two Way Active Avoidance Task 1993-1995

Shahid Bahonar Kerman University, Kerman, Iran

Bachelor Degree Biology 1985-1989

Shaheed Beheshti University of Medical Sciences, Tehran, Iran

PhD Physiology Thesis: Effect of Capsaicin and Locus Coeruleus Electrical Stimulation on Response of Barrel Cortical Cells to Controlled Mechanical Displacement in Adult Rats. 1996-2002

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### Honors and awards

Membership of IBRO's Scientific Committee –the International Research Center

Board membership of Neuroscience and Cognitive Research Centers of Kerman Medical University of Iran

Membership of Committee of Physiology and Pharmacology centers of Kerman Medical University of Iran

Membership of Research Center Committee of Kerman Medical University of Iran

Membership of Characteristic Committee of Kerman Medical University of Iran

National Scientific Director and Reviewer of Medical Student of Basic Olympiad

National Scientific Referee of Medical Student of Basic Olympiad

Having the Outstanding Project in Basic Medical Science, 4th Razi National Research Festival, Tehran, Iran, 1998.

Elected as the best researcher (2006) in Kerman Neuroscience Research Center, Kerman, Iran

Elected as the best researcher (2007) in Kerman University of Medical Sciences, Kerman, Iran

Elected as the best researcher (2008) in Kerman Neuroscience Research Center, Kerman, Iran

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### **Interests**

Off-roading, Hunting, Gardening

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### **Languages**

English

Advanced level

Persian

Native language

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### **Publications**

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#### **Journal papers**

1. Kazemi A, Rahmati M, Eslami R, Sheibani V. Activation of neurotrophins in lumbar dorsal root probably contributes to neuropathic pain after spinal nerve ligation.

Iran J Basic Med Sci, 20, 1, 29-35, 2017

2. Kalantaripour TP, Esmaili-Mahani S, Sheibani V, Najafipour H, Asadi-Shekaari M M Apelin-13 protects rat primary cortical glia-neuron co-culture against pentylentetrazole-induced toxicity.

Biomed Pharmacother, 87, 661-668, 2017

3. Dalaveri F, Nakhaee N, Esmailpour K, Mahani SE, Sheibani V. Effects of maternal separation on nicotine-induced conditioned place preference and subsequent learning and memory in adolescent female rats.

Neurosci Lett, 639, 151-156, 2017

4. Esmailpour K, Sheibani V, Shabani M, Mirnajafi-Zadeh J. Effect of low frequency electrical stimulation on seizure-induced short- and long-term impairments in learning and memory in rats.

Physiol Behav, 168, 112-121, 2017

5. Mahmoudvand H, Sheibani V, Keshavarz H, Shojaee S, Esmaeelpour K, Ziaali N. Iran J Parasitol. Acetylcholinesterase Inhibitor Improves Learning and Memory Impairment Induced by Toxoplasma gondii Infection.

Iran J Parasitol, 11, 2, 177-185, 2016

6. Delavari F, Sheibani V, Esmaeili-Mahani S, Nakhaee N. Maternal Separation and the Risk of Drug Abuse in Later Life.

Addict Health, 8, 2, 107-114, 2016

7. Kalantaripour TP, Esmaeili-Mahani S, Sheibani V, Asadi-Shekaari M, Pasban-Aliabadi H. Anticonvulsant and neuroprotective effects of apelin-13 on pentylenetetrazole-induced seizures in male rats

Biomed Pharmacother, 84, 258-263, 2016

8. Abbassian H, Whalley BJ, Sheibani V, Shabani M. Cannabinoid type 1 receptor antagonism ameliorates harmaline-induced essential tremor in rat

Br J Pharmacol, 173, 22, 3196-3207, 2016

9. Saberi A, Abbasloo E, Sepehri G, Yazdanpanah M, Mirkamandari E, Sheibani V, Safi Z. The Effects of Methanolic Extract of Melissa officinalis on Experimental Gastric Ulcers in Rats.

Iran Red Crescent Med J, 18, 7, e24271, 2016

10. Mahmoudvand H, Sheibani V, Shojaee S, Mirbadie SR, Keshavarz H, Esmaeelpour K, Keyhani AR, Ziaali N. Toxoplasma gondii Infection Potentiates Cognitive Impairments of Alzheimer's Disease in the BALB/c Mice.

J Parasitol, 102, 6, 629-635, 2016

11. Tahamtan M, Moosavi SM, Sheibani V, Nayeypour M, Esmaeili-Mahani S, Shabani M. Erythropoietin attenuates motor impairments induced by bilateral renal ischemia/reperfusion in rats.

Fundam Clin Pharmacol, 30, 6, 502-510., 2016

12. Abbassian H, Esmaeili P, Tahamtan M, Aghaei I, Vaziri Z, Sheibani V, Whalley BJ, Shabani M. Cannabinoid receptor agonism suppresses tremor, cognition disturbances and anxiety-like behaviors in a rat model of essential tremor.

Physiol Behav, 164, Pt A, 314-20, 2016

13. Asgari A, Semnianian S, Atapour N, Shojaei A, Moradi-Chameh H, Ghafouri S, Sheibani V, Mirnajafi-Zadeh J. Low-frequency electrical stimulation enhances the effectiveness of phenobarbital on GABAergic currents in hippocampal slices of kindled rats.

Neuroscience, 330, 26-38, 2016

14. Khodamoradi M, Asadi-Shekaari M, Esmaeili-Mahani S, Esmaeelpour K, Sheibani V. Effects of genistein on cognitive dysfunction and hippocampal synaptic plasticity impairment in an ovariectomized rat kainic acid model of seizure.

Eur J Pharmacol, 786, 1-9, 2016

15. Nezhadi A, Sheibani V, Esmaeelpour K, Shabani M, Esmaeili-Mahani S. Neurosteroid allopregnanolone attenuates cognitive dysfunctions in 6-OHDA-induced rat model of Parkinson's disease.

Behav Brain Res, 305, 258-64, 2016

16. Ghazvini H, Khaksari M, Esmaeelpour K, Shabani M, Asadi-Shekaari M, Khodamoradi M, Sheibani V. Effects of treatment with estrogen and progesterone on the methamphetamine-induced cognitive impairment in ovariectomized rats.

Neurosci Lett, 619, 60-7., 2016

17. Pourrahimi AM, Mazhari S, Shabani M, Tabrizi YM, Sheibani V. Numerical distance effect in patients with schizophrenia.

Neurosci Lett, 617, 1-5, 2016

18. Aghaei I, Hajali V, Dehpour A, Haghani M, Sheibani V, Shabani M. Alterations in the intrinsic electrophysiological properties of Purkinje neurons in a rat model of hepatic encephalopathy: Relative preventing effect of PPAR $\gamma$  agonist.  
Brain Res Bull, 121, 16-25, 2016
19. Mahmoudvand H, Ziaali N, Ghazvini H, Shojaee S, Keshavarz H, Esmaeilpour K, Sheibani V. Toxoplasma gondii Infection Promotes Neuroinflammation Through Cytokine Networks and Induced Hyperalgesia in BALB/c Mice.  
Inflammation, 39, 1, 405-12, 2016
20. Mahmoudvand H, 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, 109, 8, 369-76, 2015
21. Joukar S, Sheibani V, Koushesh F, Ghasemipour Afshar E, Ghorbani Shahrababaki S. Arrhythmogenic Risk Assessment Following Four-Week Pretreatment With Nicotine and Black Tea in Rat.  
Res Cardiovasc Med, 4, 3, e27088, 2015
22. Salari M, Sheibani V, Saadati H, Pourrahimi A, khaksarihadad M, Esmaeelpour K, Khodamoradi M. The compensatory effect of regular exercise on long-term memory impairment in sleep deprived female rats.  
Behav Processes, 119, 50-7, 2015
23. Shams ara A, Sheibani V, Esmaeilpour K, Eslaminejad T, Nematollahi-Mahani SN. Coadministration of the Human Umbilical Cord Matrix-Derived Mesenchymal Cells and Aspirin Alters Postischemic Brain Injury in Rats.  
J Stroke Cerebrovasc Dis, 24, 9, 2005-16, 2015
24. Hajali V, Sheibani V, Ghazvini H, Ghadiri T, Valizadeh T, Saadati H, Shabani M. Effect of castration on the susceptibility of male rats to the sleep deprivation-induced impairment of behavioral and synaptic plasticity.  
Neurobiol Learn Mem, 123, 140-8, 2015
25. Harandi S, Golchin L, Ansari M, Moradi A, Shabani M, Sheibani V. Antiamnesic Effects of Walnuts Consumption on Scopolamine-Induced Memory Impairments in Rats.  
Basic Clin Neurosci, 6, 2, 91-9, 2015
26. Raoof R, Esmaeili-Mahani S, Abbasnejad M, Raoof M, Sheibani V, Kooshki R, Amirkhosravi L, Rafie F. Changes in hippocampal orexin 1 receptor expression involved in tooth pain-induced learning and memory impairment in rats.  
Neuropeptides, 50, 9-16, 2015
27. Hajali V, Sheibani V, Mahani SE, Hajializadeh Z, Shabani M, Aliabadi HP, Saadati H, Esmaeilpour K. Ovariectomy does not exacerbate the negative effects of sleep deprivation on synaptic plasticity in rats.  
Physiol Behav, 144, -, 73-81, 2015
28. Vaziri Z, Abbassian H, Sheibani V, Haghani M, Nazeri M, Aghaei I, Shabani M. The therapeutic potential of Berberine chloride hydrate against harmaline-induced motor impairments in a rat model of tremor.  
Neurosci Lett, 590, 84-90, 2015
29. Saadati H, Esmaeili-Mahani S, Esmaeilpour K, Nazeri M, Mazhari S, Sheibani V. Exercise improves learning and memory impairments in sleep deprived female rats.  
Physiol Behav, 138, 285-91, 2015
30. Sepehri G, Parsania S, Hajzadeh MA, Haghpanah T, Sheibani V, Divsalar K, Shekarforoush S, Afarinesh MR. The effects of co-administration of opium and morphine with nicotine during pregnancy on spatial learning and memory of adult male offspring rats.  
Iran J Basic Med Sci, 17, 9, 694-701, 2014

31. Saadati H, Sheibani V, Esmaeili-Mahani S, Darvishzadeh-Mahani F, Mazhari S. Prior regular exercise reverses the decreased effects of sleep deprivation on brain-derived neurotrophic factor levels in the hippocampus of ovariectomized female rats.  
Regul Pept, 194-195, 11-5, 2014
32. Saadati H, Sheibani V, Esmaeili-Mahani S, Hajali V, Mazhari S. Prior regular exercise prevents synaptic plasticity impairment in sleep deprived female rats.  
Brain Res Bull, 108, 100-5, 2014
33. Ghamati L, Hajali V, Sheibani V, Esmaeilpour K, Sepehri G, Shojaee M. Single and repeated ultra-rapid detoxification prevents cognitive impairment in morphine addicted rats: a privilege for single detoxification.  
Addict Health, 6, 1-2, 54-64, 2014
34. Aveseh M, Nikooie R, Sheibani V, Esmaeili-Mahani S. Endurance training increases brain lactate uptake during hypoglycemia by up regulation of brain lactate transporters.  
Mol Cell Endocrinol, 394, 1-2, 29-36, 2014
35. Hajializadeh Z, Nasri S, Kaeidi A, Sheibani V, Rasouljan B, Esmaeili-Mahani S. Inhibitory effect of *Thymus caramanicus* Jalas on hyperglycemia-induced apoptosis in in vitro and in vivo models of diabetic neuropathic pain.  
J Ethnopharmacol, 153, 3, 596-603, 2014
36. Tabrizi YM, Mazhari S, Nazari MA, Zangiabadi N, Sheibani V. Abnormalities of motor imagery and relationship with depressive symptoms in mildly disabling relapsing-remitting multiple sclerosis.  
J Neurol Phys Ther, 38, 2, 111-8, 2014
37. Pourrahimi AM, Mazhari S, Shabani M, Sheibani V. An evidence for lack of pseudoneglect in patients with schizophrenia: an ERP study.  
Neurosci Lett, 561, 96-100, 2014
38. Asadi-Shekaari M, Karimi A, Shabani M, Sheibani V, Esmaeilpour K. Maternal feeding with walnuts (*Juglans regia*) improves learning and memory in their adult pups.  
Avicenna J Phytomed, 3, 4, 341-6, 2013
39. Pahlavan Y, Sepehri G, Sheibani V, Afarinesh Khaki M, Gojazadeh M, Pahlavan B, Pahlavan F. Study the antinociceptive effect of intracerebroventricular injection of aqueous extract of *origanum vulgare* leaves in rat: possible involvement of opioid system.  
Iran J Basic Med Sci, 16, 10, 1109-13, 2013
40. Rahmani M, Rajabi S, Allahtavakoli M, Roohbakhsh A, Sheibani V, Shamsizadeh A. The Role of Capsaicin-induced Acute Inactivation of C-fibers on Tactile Learning in Rat.  
Iran J Basic Med Sci, 16, 2, 129-33, 2013

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## Skills

Single Unit Recording  
Field Potential Recording (in vivo)  
EEG and EMG Recordings in Experimental animals  
Laser Doppler Blood Flow Monitoring  
Pain evaluating test (Hot plate, formalin, tail flick)  
Learning and memory test (Morris water maze, one and two way avoidance task,...  
Kindling (electrical and chemical)