



**Name:** Ali Shamsara

**Date of Birth:** 1975

**Sex:** Male

**Marital Status:** Married

**Nationality:** Iranian

**Address:** Department of Anatomy, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

**@:** aliadn308@gmail.com

**☎:** (98) 9133916331

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### **Languages**

1/ Persian

2/ English

### **Educations**

1/ Ph.D. in Anatomy, school of Medicine, Kerman University, Iran 2015

2/ M.Sc. in Anatomy, school of Medicine, Kerman University, Iran 2005

### **Occupation**

Assistant Professor of Anatomy

### **Teaching Experience**

1/ Theoretical and practical gross anatomy to B.Sc., M.Sc., Medical students (anatomy, embryology, histology)

### **Research Interests**

1/ stem cell, Brain research

2/ Gross Anatomy, Anthropology

3/ Brain Ischemia

4/ Toxicology studies

### **Skill-set**

Cell Culture

Surgical processing in rat

LTP (Long Term Potential)

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

Learning and memory test (Morris water maze, Rotarod test)  
Histological studies

### **Technical Proficiency**

Immunohistochemistry, PCR, Animal brain surgery, Stem cell differentiation

### **Workshops and Congresses**

1. The Effect of aspirin on ultrastructure of hippocamp CA<sub>1</sub> after induction ischemia in male rat. Aboli Dokht A, Eftekhari Vaghefi S, Asadi M, Sheibani V, Ezat Abadi M, Moshkdanian Gh. The 5<sup>th</sup> Asian-Pacific International Congress Of Anatomists, 16-19 May 2008, Tehran-Iran
2. The study of the nose shape and its comparison with the beauty line in kerman city, in APICA. Rayegan Parviz, Eftekhari Vaghefi S, Hasan, Zargar Poor Roza, Amir Mahmodi Abolghasem, Poya Fateme, **Aboli Ali**, Moshkdanian Ghazaleh. (Poster presentation)
3. Participation in the 5th International Asia-Pacific Congress and the 8th National Congress of Iranian Anatomy (2008)
4. Lecture at the 17th Congress of Physiology and Pharmacology (2005)

### **Current Researches**

- 1- Evaluation of the protective effect of omega-3 on brain damage in the frontal cortex and CA1 hippocampus following procarbazine consumption in male rats
- 2- Evaluation of relationship between aneurysm of abdominal aorta and renal, suprarenal and middle sacral arteries variations in CT-Scan, angiography and arteriography images
- 3- Investigation of the effect of co-administration of melatonin and omega-3 on cognitive tests, histology of the hippocampus and prefrontal cortex, and serum antioxidant capacity in male rats following dorsal CA1 region of the hippocampus lesion
- 4- The effect of co-administration of acetylsalicylic acid and conditioned medium obtained from undifferentiated mesenchymal stem cells derived from adipose tissue following lesion to the CA1 region of the hippocampus in male rat

### **Submitted papers**

- 1- Vitamin E Improves Liver and Pancreas Structural and Chemical Status after Movento poison Gavage in Adult Male Rats. Sanaz balooch, Mohsen Basiri, Reza Malekpour Afshar, Ali Shamsara\*
- 2- The study of behavioral, molecular and histology of cerebellum in adult male rats following chronic exposure of pesticides Movento. Seyed Hassan Eftekhari Vaghefi,

Mohammad Reza Afarinesh khaki, Iman Zangiabadi, Ali Shamsara\*

- 3- Evaluation of the relationship between the abdominal aortic aneurysm and Abdominal vessels variations in CT scan, angiography, and arteriography images
- 4- Evaluation of the restorative effects of vitamin E on damaged liver and pancreas tissues after exposed to Spirotetramat Poison in Adult Male Rats

### **Published papers**

1- Neural Like Cells and Acetyl-Salicylic Acid Alter Rat Brain Structure and Function Following Transient Middle Cerebral Artery Occlusion. Ali Shamsara, Vahid Sheibani, Majid Asadi-Shekaari, Seyed Nouredin Nematollahi-Mahani. BioMol Concepts, 2018

2- Co-administration of the human Umbilical Cord Matrix-derived Mesenchymal Cells and Aspirin alters postischemic brain injury in rats. Ali Shams Ara, Vahid Sheibani, khadije esmaeil pour, seyed nourredin nematollahi mahani. Journal of Stroke and Cerebrovascular Diseases. (April 09, 2015)

3- Evaluation of Neurogenic Potential of Human Umbilical Cord Mesenchymal Cells; a Time- and Concentration- Dependent Manner. Seyed Hassan Eftekhari vaghefi, Leila zahmatkesh, Parvin salehinejad, Shahin totonchi, Ali Shams Ara. Iranian Biomedical Journal 19 (2): April 2015

4- A Study of the Anatomic Variations in Extrahepatic Bile Ducts in 50 Adults Referred to Kerman Forensic Medicine Organization. Seyed Hassan Eftekhari vaghefi, Ali Shams Ara, Mahdiye jamalizadeh. Anatomical Sciences Journal 2013, Vol 10, No 1, Pages 57-62

5- Antiapoptotic Effects of Aspirin on CA1 Pyramidal Neurons in Adult Rats . Majid asadi, Hassan Eftekhari vaghefi, Masoud ezat abadi pour, Vahid shaibani, Ali Shams Ara, parisima behbahani. Iranian Journal of Pathology, 2011, 6 (4), 187 – 192

6- Ultrastructural Study of Neuronal Death in Rat Hippocampus after Transient and Permanent Focal Cerebral Ischemia. Majid Asadi, Marziyeh Panahi, Seyed Hassan Eftekhari Vaghefi, Ali Shams Ara. Yakhteh Medical Journal, Vol 11, No 1, Spring 2009, Pages: 23-28

7- Xeno-free culture condition for human bone marrow and umbilical cord matrix-derived mesenchymal stem/stromal cells using human umbilical cord blood serum. Azadeh Esmaeli, M.D., Mojgan Moshrefi,

Ph.D., Ali Shamsara Ph.D., Seyed Hasan Eftekhari-vaghefi Ph.D., Seyed Nouredin Nematollahi-mahani  
Ph.D. Int J Reprod BioMed Vol. 14. No. 9. pp: 567-576, September 2016

8- Histidine Neuroprotective Effect on CA1 Region of Rat Hippocampus Following Transient Brain Ischemia. Vaghefi Eftekhari H, Sheibani V, Mohammadi pour A, Aboli A

9- Mowonto effects on learning and hippocampal brain-derived neurotrophic factor protein of adult male rats. Iman Zangiabadi & Mohammad Reza Afarinesh & Ali Shamsara & Seyed Hasan Eftekhari-Vaghefi. Environmental Science and Pollution Research. 2019

10- The Relationship between Brain Volume, Brain Weight and IQ in Children in Primary Schools in the South of Iran. Fatemeh Pouya, M.Sc., Mahdiah Zamani, M.Sc., Seyed Hassan Eftekhari-Vaghefi, Ph.D., Yunes Jahani, Ph.D., Farzaneh Raaii, Ph.D., Ali Shamsara, Ph.D., Journal of Kerman University of Medical Sciences, 2020; 27 (2): 141-149

11. Anatomical Evaluation of the Phrenic Nerve Variations in 24 Cadavers. Eftekhari Vaghefi S. H., Rayegan S. P., Shamsara A. Babaei A. R. 2015

12. Chronically Pre-treatment of Pistachio Alters the Morphology of CA1 Hippocampus Neurons Following Transient Focal Cerebral Ischemia in Male Wistar Rats. Hossein Pourmobini, Mohammad Reza Afarinesh, Ali Shamsara, Seyed Hassan Eftekhari-Vaghefi, Majid Asadi-Shekaari. Acta Biomed 2021; Vol. 92