

# CURRICULUM VITAE

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## Educational Records:

**M.Sc. (2003)** school of nursery and midwifery, Shiraz University of Medical Sciences, Iran.

**M.Sc. (2009)** Department of Physiology, Shiraz University of Medical Sciences,

Iran. **Ph.D. (2016)** Department of Physiology, Shiraz University of Medical Sciences, Iran.

## Awards:

- First ranked student of Phd curriculum in 2016
- Representative student to take part in 5<sup>th</sup> Tehran IBRO school of neuroscience
- Most talented Phd student in 2010 and 2011
- First ranked student of master curriculum in 2009
- Most talented Master student in 2008
- Third ranked student in Iran Master degree entrance exam 2006

## Research Interests:

Cerebral ischemia-reperfusion

Cerebral Ischemia-reperfusion induced distant organ dysfunction

Traumatic brain injury

## Thesis Supervision:

### Enrolled Theses

**Supervisor of Mr H. Motamed Jahromi, M.Sc. Candidate in Physiology (Sep. 2021):** To study the effects of intranasal insulin administration, therapeutic hypothermia and combination therapy on neuronal damage of hippocampus following traumatic brain injury in rats.

**Advisor of Mr M.J Maftoon Azad, M.Sc. Candidate in Physiology (Nov. 2021):** To Study the effects of reduced renal perfusion pressure during ischemic period on acute kidney injury induced by ischemia-reperfusion via renal vein occlusion in anaesthetized rats.

### Submitted Theses

**Supervisor of Miss Z. Dolat-Abadi, M.Sc. in Physiology (Feb. 2020):** The effect of acute treatment with atorvastatin and the role of nitric oxide on brain injury induced by ischemia/reperfusion in rats.

**Supervisor of Miss E. Faghih Shirazi, M.Sc. in physiology (Sep. 2021):** To study renal function disorder following acute focal cerebral injury induced by ischemia/reperfusion in rats.

## Publications:

- 1- Maryam Nazari, Somaye Keshavarz, Ali Rafati, Mohammad Reza Namavar, Masoud Haghani, Brain Res Bull, 2016. Fingolimod (FTY720) improves hippocampal synaptic plasticity and memory deficit in rats following focal cerebral ischemia**
- 2- Masoud Haghani, Somaye Keshavarz, Maryam Nazari, Ali Rafati, SYNAPSE 70:351–360, 2016, Electrophysiology of Cerebral Ischemia and Reperfusion: First Evidence for the Role of Synapse in Ischemic Tolerance.**
- 3- Somaye Keshavarz, Gholam A. Dehghani, Cerebral Ischemia/Reperfusion Injury in the Hyperthyroid Rat, Iranian Journal of Medical Sciences, 2017.**
- 4- Mohammad Saied Salehi, Sareh Pandamooz, Anahid Safari, Benjamin Jurek, Seyed Mostafa Shid Moosavi, Somaye Keshavarz, Epidermal neural crest stem cell transplantation as a promising therapeutic strategy for ischemic stroke, CNS Neurosci Ther, 2020.**
- 5- Somaye Keshavarz, Gholam A. Dehghani, An investigation of the effects of hypothyroidism on cerebrovascular injuries following ischemia-reperfusion in rats, **Under review.****
- 6- Somaye Keshavarz, Marzieh Nemati, Impact of anesthetic drugs, halothane, isoflurane and chloral hydrate on the rate of success, mortality and neurological outcomes following temporal middle cerebral artery occlusion in rats, **Under review.****

## **Book Translation:**

Textbook of medical physiology by Guyton A.C. & Hall J.E., 13th edition (2016), Unit III and XIV, Heart and Endocrine system (Persian version, Sobhan publisher) 2th edition (2016)

Textbook of medical physiology by Guyton A.C. & Hall J.E., 12th edition (2011), Unit III and XIV, Heart and Endocrine system (Persian version, Sobhan publisher) 1th edition (2014)

## **Abstracts & Presentations:**

**Somaye Keshavarz**, Gholam A. Dehghani, (2019): An investigation of the effects of hypothyroidism on cerebrovascular injuries following ischemia-reperfusion in rats. 3<sup>rd</sup> International Congress of physiology and Pharmacology, Shahed University, Tehran, Iran, 30 Oct-01 Nov 2019, Tehran, Iran.

**Somaye Keshavarz**, Gholam A. Dehghani, (2018): Hypothyroidism alleviates cerebral infarction but exacerbates blood-brain barrier disruption following transient ischemic stroke in rats. 2<sup>nd</sup> International Congress of physiology and Pharmacology 15-18 February 2018, Chabahar, Iran.

**Somaye Keshavarz**, Gholam A. Dehghani (2016): Contribution of Nitric oxide (NO) in neurovascular injuries induced by transient focal cerebral ischemia in hyperthyroid rats. The 10<sup>th</sup> FENS forum of Neuroscience, 2-6 July, Copenhagen, Denmark.

**Somaye Keshavarz**, Gholam A. Dehghani (2016): Cerebral Ischemia/Reperfusion Injuries in the Hyperthyroid Rat. 5<sup>th</sup> international IBRO School, 30 April-11 May. Tehran, Iran.

**Somaye Keshavarz**, Gholam A dehghani (2015): Comparison of anesthetic drugs halothane, isoflurane and chloral hydrate with the rates of success and injury of temporal middle cerebral occlusion in the rat .The 22th Iranian Congress of Physiology & Pharmacology.

Varedi M, **Keshavarz S.**, Moattari A, Owji M,( 2009) The Effects of Acute Hyperthyroxinemia on Adrenal Reserve and Resistance to HSV1 Infection in The Rat. 19th Iranian Congress of Physiology and Pharmacology; December 15-17; Tehran, IRAN

## **Schools and workshops:**

- ❖ Medical Education Fellowship , Vice-chancellor of education affairs of Shiraz University of Medical Sciences, June and July 2018
- ❖ Research fellowship, Vice-chancellor of research affairs of Shiraz University of Medical Sciences, March and June 2019
- ❖ Electronic learning in medical sciences: Center of Excellence for Electronic Learning in Medical Sciences of Shiraz University of Medical Sciences September 2019
- ❖ 5th interntional IBRO school, 30 April-11 May. Tehran, Iran include following:

- Workshop of "In vitro Field potential" from brain slices.
  - Workshop of "In vivo Field potential" in moving rat models.
  - Workshop of" Animal Models of Epilepsy".
  - Workshop of" Whole cell patch clamp recording" in rat hippocampal slices.
  - Workshop of" Single cell recording of snail ganglion".
  - Workshop of" Whole cell patch clamp recording in cell culture".
  - Workshop of "Single channel recording in artificial bilayer membranes".
  - Workshop of" Principles of Optogenetics".
  - Workshop of "Principles of fMRI".
  - Workshop of "Behavioral Techniques in Neuroscience".
- ❖ Workshop of "Communication Skills" 2016, June, 26th, Shiraz University of Medical Sciences, Shiraz, Iran.
  - ❖ The first " Interdisciplinary Seminar on Neuroscience", 2013, October, 13<sup>th</sup>, Shiraz University of Medical Sciences, Shiraz, Iran.
  - ❖ Educational workshop of "Curriculum Planning and lab Teaching" 2011, February, 14<sup>th</sup>, Education Development Center, Shiraz University of Medical Sciences, Shiraz, Iran.
  - ❖ Workshop of "Introduction to Research Methodology and Epidemiologic Research Type" 2011, November, 28th, Shiraz University of Medical Sciences, Shiraz, Iran.
  - ❖ Workshop of" Endnote X4", 2011, July, 21<sup>th</sup>, Shiraz University of Medical Sciences, Shiraz, Iran.
  - ❖ Education workshop of" Protection Principles and Safety in Lab" 2008, January, Shiraz University of Medical Sciences, Shiraz, Iran.