

Curriculum vitae

Personal Information:

Sahar Askari

Degree: Ph.D. in medical physiology

E-mail: saharaskari1369@yahoo.com , Askari.s@iums.ac.ir

<http://orcid.org/0000-0003-2617-0975>

Researcher ID: Z-1804-2018 Scopus ID: 57189260278

Place of birth: Tehran

Date of birth: 3/5/1990

Address: Department of Physiology, School of Medicine, Iran University of Medical Science, Shahid Hemmat, Highway, Tehran, Iran.

Education:

Bachelor of Science. (2008-2012): Biology, Shahid Beheshti University. Tehran, Iran.

M.Sc. (2012-2015): Medical Physiology, Physiology Department, Tehran University of Medical Sciences, Tehran, Iran.

Ph.D. (2015-2023): Medical Physiology, Physiology Department, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Thesis and research project:

M.Sc.

Cardioprotective effects of lactation on myocardial ischemic-reperfusion injuries.

Ph.D.

Behavioral and molecular effects of Thapsigargin (ER stress inducer) on the memory impairment (in-vivo) with the considering MAPKs (JNK, ERK, P38), IRS-1 and apoptosis pathways, and the role of the time in ER stress performance and related molecules (in-vitro (cell culture))

Research Experience:

- Proteomics: western blotting
- Cellular studies: PC12 cell culture (cell passage, freezing and defreezing)
- Cellular analysis methods (cell count, MTT, Protein assay)
- Other techniques:
 - A. Rodent surgeries: stereotaxic and langendorff (heart isolation and myocardial ischemia-reperfusion)
 - B. Learning and memory studies; Morris Water Maze

Research activity

Published Articles:

1. Review: Sahar Askari, Fatemeh Azizi, Pegah Javadpour, Nasser Karimi, Rasoul Ghasemi., Expert Review of Ophthalmology. 11 Nov 2022. Endoplasmic reticulum stress as an underlying factor in leading causes of blindness and potential therapeutic effects of 4-phenylbutyric acid: from bench to bedside. <https://doi.org/10.1080/17469899.2022.2145945>.
2. S Askari, P Javadpour, FS Rashidi, L Dargahi, K Kashfi... - Life, 2022 - mdpi.com. Behavioral and Molecular Effects of Thapsigargin-Induced Brain ER- Stress: Encompassing Inflammation, MAPK, and Insulin Signaling Pathway. <https://doi.org/10.3390/life12091374>.
3. Saeid Bagheri-Mohammadi, Sahar Askari¹, Behrang Alani, Maryam Moosavi, Rasoul Ghasemi. Journal of Molecular Neuroscience 2022. Cinnamaldehyde Regulates Insulin and Caspase-3 Signaling Pathways in the Sporadic Alzheimer's Disease Model: Involvement of Hippocampal Function via IRS-1, Akt, and GSK-3 β Phosphorylation. doi.org/10.1007/s12031-022-02075.
4. Javadpour P, Askari S, Rashidi F, Dargahi L, Ahmadian A, Ghasemi R. Imipramine alleviates memory impairment and hippocampal apoptosis in STZ-induced sporadic Alzheimer's rat model: possible contribution of MAPK and insulin signaling. Behavioural Brain Research; 408 (9770): 113260 <https://doi.org/10.1016/j.bbr.2021.113260>.
5. Binayi F, Zardooze H, Ghasemi R, Hedayati M, Askari S, Sahraei M. The chemical chaperon 4-phenyl butyric acid restored high -fat diet- induced hippocampal insulin content and insulin receptor level reduction along with spatial learning and memory deficits in male rats. Physiology and behavior; January 2021,231: 113312 <https://doi.org/10.1016/j.physbeh.2021.113312>.
6. Javadpour P, Askari S, Azizi F, Ghasemi R. The course study of ERK1/2 activity and cell viability in lipopolysaccharide challenged PC12 cells. Physiology and Pharmacology; January 2021, 25. 1. 50 [DOI: 10.32598/ppj.25.1.50](https://doi.org/10.32598/ppj.25.1.50).

7. Edalatyzadeh Z, Aghajani M, Imani A, Faghihi M, Sadeghniat-Haghighi K, Askari S, Choopani S Cardioprotective Effects of acute sleep deprivation on ischemia/reperfusion injury. *Autonomic Neuroscience*. Volume 230, January 2021, 102761. doi.org/10.1016/j.autneu.2020.102761.
8. Aziz F, Askari S, Javadpour P, Ghasemi R. Potential role of exosome in post-stroke reorganization and/or neurodegeneration. *EXCLI journal* 19, 1590, 2020 [doi: 10.17179/excli2020-3025](https://doi.org/10.17179/excli2020-3025).
9. Nilforushan, N., S. Askari, and N. Karimi. A Common Pitfall in Glaucoma Treatment Success Assessment. *J Glaucoma*, 2017. 26 (6): p. e195-e196. [DOI: 10.1097/IJG.0000000000000435](https://doi.org/10.1097/IJG.0000000000000435).
10. Askari, S., et al., Effect of Lactation on myocardial vulnerability to ischemic insult in rats. *Arq Bras Cardiol*, 2017. 108 (5): p. 443-451. <https://doi.org/10.5935/abc.20170042>.
11. Edalatyzadeh Z, Imani A, Faghihi M, Choopani S, Askari S, Aghajani M, Sadeghniat-Haghighi K. Effect of acute sleep deprivation on ischemia-induced ventricular arrhythmia in the isolated rat heart. *Journal of Sleep Sciences*. 2016 Jul 27; 1 (2):38-43. [pISSN: 2476-2938](https://doi.org/10.1007/978-981-19-5021-6)
[eISSN: 2476-2946](https://doi.org/10.1007/978-981-19-5021-6).
12. Choopani S, Imani A, Faghihi M, Askari S, Edalatyzadeh Z. chronic sleep deprivation and ventricular arrhythmias: effect of sympathetic nervous system. *Journal of Cellular & Molecular Anesthesia*. 2016 Apr 14; 1 (2):56-61. <https://doi.org/10.22037/jcma.v1i2.10859>.

Publish book:

1. Book: Nutrition and Psychiatric Disorders., Editors: Wael Mohamed • Firas Kobeissy
Chapter 2 Nutrition, Cognitive Functions, and Emotions: Pegah Javadpour, Sahar Askari, and Rasoul Ghasemi. <https://doi.org/10.1007/978-981-19-5021-6>.
-