Curriculum Vitae

Pegah Javadpour

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Date of birth: August 22, 1990

Birthplace: Tabriz, Iran

Marital status: Married

Languages:

- Persian
- English
- Turkish

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Education

Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Ph.D in Medical Physiology, Department of Physiology, Faculty of Medical Sciences, (2015-2021).

Thesis title: Investigating the interplay of ceramide biosynthesis pathways with insulin signaling pathway in "In vivo" and "In vitro" models of Alzheimer's disease

Supervisor: Dr. Rasoul Ghasemi

Tarbiat Modarres University, Tehran, Iran.

M.Sc. student in medical physiology, Department of Physiology, Faculty of Medical Sciences, (2013-2015)

Thesis title: The role of NO in heart rate variability in isolated heart of endotoxemic rats

Supervisor: Dr. Sohrab Hajizadeh

Tehran University of Medical Sciences, Tehran. Iran

BSc. student in operating room Technology (Surgery Technology). Operating room Department, Faculty of Medical Sciences, (2009-2013).

Research Interests

- The mechanisms of neurodegeneration and neuroprotection in neurological disorders
- Mitochondrial transplantation in brain
- Mitochondrial dynamic and plasticity

Laboratory skills

- Working with laboratory rodents for establishing animal models, including Alzheimer's disease and Parkinson's disease.
- Handling and analyzing the biological specimens focused on histological and molecular methods, such as western blotting and ELISA.
- Mice and rat stereotaxic surgery.
- Performing and analyzing behavioral tests for rodents, including Morris Water Maze, Y maze, and Elevated Plus Maze.
- Primary and transformed cell culture and cell death analysis methods.
- Fluorescent microscopy
- Mitochondrial isolation and transplantation.
- Recording of ECG from isolated heart (Langendorff set up)

Technical skills

- Data analysis: Image J, GraphPad Prism, EthoVision XT
- Others: Microsoft Office applications, Adobe Photoshop, Windows movie maker

Work experiences

- Deputy Editor-in-Chief of the journal, Physiology and Pharmacology, http://ppj.phypha.ir/ (2022-now)

- Editorial board of the journal, NanoEra, https://dergipark.org.tr/en/pub/nanoera (2022-now)

- Reviewer, Physiology and Pharmacology, http://ppj.phypha.ir/ (2022-now)

- Researcher at neuroscience research center, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2022-now)

Participation in research projects

- Investigating the effect of NO on heart rate variability on isolated heart of endotoxemic rats

- Investigating the interplay of ceramide biosynthesis pathways with insulin signaling pathway in "In vivo" and "In vitro" models of Alzheimer's disease

- Evaluation of LPS induced-neuroinflammation and time dependency on MAPK signaling pathway components in PC12 cells.

- Study of the effect of central ER stress on spatial learning and memory and hippocampal insulin and MAPK signaling pathway in an animal model of central ER stress.

- Study of the effect of MAPK members in the toxic effects of ER stress induced by Tapsigargin in cultured PC12 cells

- Basic neuroscience research techniques in the Shahid Beheshti university of Medical Sciences (Series of tutorial videos, English translator)

- Investigating the potential protective effects of cinnamaldehyde on semi-parkinsonism toxicity of 6-OHDA in adult male rats: a behavioral and molecular study

- The effects of astaxanthin on the improvement of renal disorders caused by spinal cord injury in the compressive spinal cord injury model in rats

- Investigating the possible protective effects of the antidepressant drug imipramine in cytotoxicity caused by 6-hydroxydopamine toxin in a model of Parkinson's disease

- Therapeutic Potential of Psilocybin and *Limosilactobacillus reuteri* Combination in STZ-Induced Alzheimer's Disease in Male Rats: Investigation of Gut-Brain Axis Mediated Neuroinflammation and Neuroplasticity

- Investigating the effectiveness of mitotherapy in an animal model of 6-OHDA-induced Parkinson’s disease: analysis of administration methods and different origins of mitochondria

- Investigating the effect of mitochondrial transplantation in improving behavioral, cognitive, cellular and molecular symptoms in a rat Alzheimer's model induced by central STZ

Certificate of Attendance

- Assisted in the executive process of the 3rd Tehran IBRO School of Neuroscience (October 26 - November 6, 2013)
- Assisted in the executive process of the 4th Tehran IBRO School of Neuroscience (October 17-28, 2014)
- Poster presentation in International and 22nd Iranian Congress of Physiology and Pharmacology. Kashan University of Medical Sciences, (September 7-11, 2015)
- Assisted in the executive process of the IBRO-APRC Tehran Advanced School of Neuroscience (April 29- May 11, 2017)
- Poster presentation in the second International Congress of Physiology and Pharmacology. Chabahar, Iran, (February 15-18, 2018)
- Poster presentation in the third International Neuroinflammation congress and student festival of Neuroscience. Mashhad, Iran, (June 11-13, 2019)

Peer-Reviewed Journal Articles

1. **Javadpour, P**., Dargahi, L., Ahmadiani, A., & Ghasemi, R. (2019). To be or not to be: PP2A as a dual player in CNS functions, its role in neurodegeneration, and its interaction with brain insulin signaling. *Cellular and Molecular Life Sciences*, *76*(12), 2277-2297.
2. Moosavi, M., Hooshmandi, E**., Javadpour, P**., Maghsoudi, N., Katinger, H., & Ghasemi, R. (2020). Effect of carbamylated erythropoietin Fc fusion protein (CEPO-Fc) on learning and memory impairment and hippocampal apoptosis induced by intracerebroventricular administration of streptozotocin in rats. *Behavioural brain research*, *384*, 112554.
3. Azizi, F., Askari, S., **Javadpour, P**., Hadjighassem, M., & Ghasemi, R. (2020). Potential role of exosome in post-stroke reorganization and/or neurodegeneration. *EXCLI journal*, *19*, 1590.
4. **Javadpour P**, Askari S, Rashidi FS, Dargahi L, Ahmadiani A, Ghasemi R. Imipramine alleviates memory impairment and hippocampal apoptosis in STZ-induced sporadic Alzheimer's rat model: Possible contribution of MAPKs and insulin signaling. *Behavioural Brain Research*. 2021 Jun 25;408:113260.

5. **Javadpour P**, Askari S, Azizi F, Ghasemi R. Time course study of ERK1/2 activity and cell viability in lipopolysaccharide challenged PC12 cells. Physiology & Pharmacology. 2021 Mar 1;25(1).

6. Askari S, Azizi F, **Javadpour P**, Karimi N, Ghasemi R. Endoplasmic reticulum stress as an underlying factor in leading causes of blindness and potential therapeutic effects of 4-phenylbutyric acid: from bench to bedside. *Expert Review of Ophthalmology*. 2022 Nov 2;17(6):415-25.

7. Askari S, **Javadpour P**, Rashidi FS, Dargahi L, Kashfi K, Ghasemi R. Behavioral and Molecular Effects of Thapsigargin-Induced Brain ER-Stress: Encompassing Inflammation, MAPK, and Insulin Signaling Pathway. *Life*. 2022 Sep 2;12(9):1374.

8. **Javadpour P,** Abbaszadeh F, Ahmadiani A, Rezaei M, Ghasemi R. Mitochondrial Transportation, Transplantation, and Subsequent Immune Response in Alzheimer's Disease: An Update. *Molecular Neurobiology*. 2024 Feb 17:1-7.

9. Abbaszadeh F, **Javadpour P**, Mousavi Nasab MM, Jorjani M. The Role of Vitamins in Spinal Cord Injury: Mechanisms and Benefits. *Oxidative Medicine and Cellular Longevity*. 2024;2024(1):4293391.

10. Moosavi M, Bagheri-Mohammadi S, Firouzan B, **Javadpour P**, Ghasemi R. Nanocurcumin prevents memory impairment, hippocampal apoptosis, Akt and CaMKII-α signaling disruption in the central STZ model of Alzheimer's disease in rat. *Behavioural Brain Research*. 2024 Aug 5;471:115129.

11. Hajikarimloo B, Jabbaripour S, Tohidinia AM, Valinejad Qanati A, Fahim F, **Javadpour P**, Ghasemi R. Insulin potential in preventing brain damage after traumatic brain injury: What we know. *Journal of Neuroendocrinology*.:e13458.

12. Salarvandian S, Digaleh H, Khodagholi F, **Javadpour P**, Asadi S, Zaman AA, Dargahi L. Harmonic Activity of Glutamate Dehydrogenase and Neuroplasticity: The Impact on Aging, Cognitive Dysfunction, and Neurodegeneration. *Behavioural Brain Research*. 2024 Dec 13:115399.

13. Khodagholi F, Dezfouli MA, Yazdanfar N, Rashidi SK, Meymand AZ, **Javadpour P**, Mirbehbahani SH, Zare N. Prenatal Methamphetamine Exposure Impairs Helping Behaviour in Male Offspring: The Possible Role of miR-223 and NLRP3 Inflammasomes in the Amygdala. *International Journal of Developmental Neuroscience*. 2025 Feb;85(1):e10410.

Books and e-books

Javadpour, P., Askari, S., Ghasemi, R. (2022). Nutrition, Cognitive Functions, and Emotions. In: Mohamed, W., Kobeissy, F. (eds) Nutrition and Psychiatric Disorders. Nutritional Neurosciences. Springer, Singapore. https://doi.org/10.1007/978-981-19-5021-6_2

Teaching experiences

- Teaching medical physiology (Respiratory system) for students of pharmacy. Shahid Beheshti University of Medical Sciences, international colleague (TA).
- Teaching laboratory physiology for students of pharmacy. Shahid Beheshti University of Medical Sciences, international colleague (TA).
- Teaching medical physiology (Heart, Respiratory system, Glandular physiology) for students of medicine. Shahid Beheshti University of Medical Sciences (TA, as online courses).
- Teaching EthoVision XT in the workshop, Department of Physiology, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 13 June 2023.