

Curriculum vitae

**Full name:**

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*Assistant Professor, Department of Anatomical Sciences, School of Medicine,
Birjand University of Medical Sciences, Birjand, Iran (BUMS)*

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PERSONAL DETAILS:

Date of birth: 1990-09-22

Nationality: Iranian

Place of Birth: Birjand, Iran

Religion: Islam

EDUCATIONAL HISTORY:

➤ **A. Education (Academic Preparation):**

- ✓ **Ph.D.** Anatomical Sciences (Histology, Anatomy and Embryology), Shahid Beheshti University of Medical Sciences, Tehran, Iran (SBMU). (**Sep. 2017 – Feb. 2021**)
- ✓ **M.Sc.** Anatomical Sciences (Histology, Anatomy and Embryology), Birjand University of Medical Sciences, Birjand, Iran (BUMS). (**Sep. 2013 – May. 2016**)
- ✓ **B.Sc.** Surgical technologist, Birjand University of Medical Sciences, Birjand, Iran (BUMS). (**Jun. 2009 - Feb. 2013**)

➤ **B. Theses and Supervisors:**

- ✓ **Ph.D. Thesis title:** The combined effects of extracellular vesicles from adipose-derived mesenchymal stem cells and apelin-13 on improvement contusion model of spinal cord injury in rats. (Dr. Hojjat-Allah Abbaszadeh)
- ✓ **M.Sc. thesis title:** The effects of maternal diabetes on gene expression and distribution pattern of synaptophysin in different subfields of hippocampus of neonatal rats. (Dr. Javad Hami)

RESEARCH INTEREST:

- ✓ Learning & Memory
- ✓ Neuroimaging
- ✓ Pain
- ✓ Neurodegenerative Diseases
- ✓ Aging
- ✓ Addiction
- ✓ Spinal cord injury
- ✓ Exosome therapy
- ✓ Maternal Diabetes

PUBLICATIONS:

➤ **A. Article**

1. Birjand I. Hypolipidemic activity of aqueous extract of turnip (*Brassica rapa*) root in hyperlipidemic rats. *Ofogh-E-Danesh*. 2015; 21:45-51.
2. Hami J, Shojae F, Vafaei-Nezhad S, Lotfi N, Kheradmand H, Haghir H. Some of the experimental and clinical aspects of the effects of the maternal diabetes on developing hippocampus. *World journal of diabetes*. 2015; 6 (3):412.
3. Hami J, Hosseini M, Ivar G, Vafaei-Nezhad S. Cognitive Function in Offspring of Mothers with Gestational Diabetes–The Role of Insulin receptor. *MOJ Anatomy & Physiology*. 2016; 2 (7).
4. Hami J, Hosseini M, Nezhad SV, Shahi S, Lotfi N, Ehsani H, et al. Beneficial effects of L-arginine on 1-methyl-4-phenyl-1, 2, 3, 6-tetrahydropyridine-induced neuronal degeneration in substantia nigra of Balb/c mice. *Advanced biomedical research*. 2016; 5.
5. Hami J, Vafaei-nezhad S, Ghaemi K, Sadeghi A, Ivar G, Shojae F, et al. Stereological study of the effects of maternal diabetes on cerebellar cortex development in rat. *Metabolic brain disease*. 2016; 31 (3):643-52.
6. Hami J, Vafaei-Nezhad S, Haghir D, Haghir H. Insulin-like growth factor-1 receptor is differentially distributed in developing cerebellar cortex of rats born to diabetic mothers. *Journal of Molecular Neuroscience*. 2016; 58(2):221-32.
7. Hami J, Vafaei-Nezhad S, Ivar G, Sadeghi A, Ghaemi K, Mostafavizadeh M, et al. Altered expression and localization of synaptophysin in developing cerebellar cortex of neonatal rats due to maternal diabetes mellitus. *Metabolic brain disease*. 2016; 31(6):1369-80.
8. Shadi M, Zardast M, Hassanpour Fard M, Sharifzadeh G, Vafaei-Nezhad S, Vaziri F, et al. Effects of Jujuba essential oil on hair follicle of the skin of Balb/c mice. *Journal of Birjand University of Medical Sciences*. 2016;23 (3):179-89.

9. Vafaei-Nezhad S, Hami J, Sadeghi A, Ghaemi K, Hosseini M, Abedini M, et al. The impacts of diabetes in pregnancy on hippocampal synaptogenesis in rat neonates. *Neuroscience*. 2016;318:122-33.
10. Afshar M, Vafaei-Nezhad S, Shadi M, Ghaderi R. The important herbal plants of Iranian flora on burn healing. *Journal of Gorgan University of Medical Sciences*. 2017;19 (3).
11. Hami J, Vafaei-Nezhad S, Sadeghi A, Ghaemi K, Taheri M-MH, Fereidouni M, et al. Synaptogenesis in the cerebellum of offspring born to diabetic mothers. *Journal of pediatric neurosciences*. 2017;12 (3):215.
12. Vafaei-Nezhad S, Hami J, Shadi M, S E. The Effects of Neurodegenerative Disease on Synaptic Density and Synaptic Vesicles Protein. *Theranostics Brain Disord*. 2018;3 (1):1-3.
13. Khoshsirat S, Abbaszadeh HA, Khoramgah MS, Darabi S, Mansouri V, Ahmady-Roozbahany N, et al. Protective effect of Photobiomodulation Therapy and Bone Marrow Stromal Stem Cells Conditioned Media on Pheochromocytoma Cell Line 12 Against Oxidative Stress Induced by Hydrogen Peroxide. *Journal of lasers in medical sciences*. 2019;10 (3):163.
14. Khoshsirat S, Keramatinia A, Khoramgah MS, Vafaei-Nezhad S, Niknazar S, Darabi S, et al. Exosome Therapy in Spinal Cord Injury: A Review. *The Journal of Otorhinolaryngology and Facial Plastic Surgery*. 2019;5 (2):1-8.
15. Vafaei-Nezhad S, Hassan MP, Noroozian M, Aliaghaei A, Tehrani AS, Abbaszadeh HA, et al. A Review of Low-Level Laser Therapy for Spinal Cord Injury: Challenges And Safety. *Journal of Lasers in Medical Sciences*. 2020;11 (4):363.
16. Hassan MP, Abdollahifar M-A, Aliaghaei A, Tabeie F, Vafaei-Nezhad S, Norouzian M, et al. Photobiomodulation therapy improved functional recovery and overexpression of interleukins-10 after contusion spinal cord injury in rats. *Journal of Chemical Neuroanatomy*. 2021;117:102010.
17. Vafaei-Nezhad S, Niknazar S, Norouzian M, Abdollahifar M-A, Aliaghaei A, Abbaszadeh HA. Therapeutics effects of [Pyr1] apelin-13 on rat contusion model of spinal cord injury: An experimental study. *Journal of Chemical Neuroanatomy*. 2021;113:101924.

➤ **B. Book Chapter**

1. Hami J, Sadeghi A, Vafaei-Nezhad S, G I. Development of the Cerebellum: Clinical and Molecular Perspectives (Neuroscience Research Progress). In: Fabbri S, editor. 1 ed: Nova Science Pub Inc; 2018. p. 21-69.
2. Vafaei-Nezhad S, Vafaei-Nezhad M, Shadi M, Ezi S. The Impact of Diabetes on Hippocampus. In: Zhang PX, editor. *Hippocampus - New Advances*. 1 ed: IntechOpen; 2021.

RESEARCH SUPERVISION:

- ✓ The effects of gestational diabetes on the expression of autophagy genes in the hippocampus of 14-day-old rat neonates. Saeed Ghasemi, Master of Science thesis in Anatomical Science of BUMU, My Role: Supervisor.

TEACHING EXPERINCES:

- ✓ **Head & Neck anatomy:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **Limb anatomy:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **Trunk anatomy:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **Neuroanatomy:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **General anatomy:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **Histology:** Birjand University of Medical Sciences. (2016- Present)
- ✓ **Embryology:** Birjand University of Medical Sciences. (2016- Present)

CONFERENCE PAPERS:

- 1- The 11th Iranian Congress on Anatomical Sciences. 19-21 Feb, 2014. Ahvaz, Iran. (*Poster Presentation*).
- 2- The 12th Iranian Congress on Anatomical Sciences. 4-6 May, 2016. Tehran, Iran. (*Poster Presentation*).
- 3- The 4th Basic and Clinical Neuroscience Congress (BCNC2015). 23-25 Dec, 2015. Tehran, Iran. (*Poster Presentation*).
- 4- The 5th Basic and Clinical Neuroscience Congress (BCNC2016). 7-9 Dec, 2016. Tehran, Iran. (*Oral Presentation*).

WORKSHOPS & SEMINARS:

- 1- The 11th Iranian Congress on Anatomical Sciences. 19-21 Feb, 2014. Ahvaz, Iran.
- 2- The 12th Iranian Congress on Anatomical Sciences. 4-6 May, 2016. Tehran, Iran.
- 3- The 4th Basic and Clinical Neuroscience Congress (BCNC2015). 23-25 Dec, 2015. Tehran, Iran.
- 4- The 5th Basic and Clinical Neuroscience Congress (BCNC2016). 7-9 Dec, 2016. Tehran, Iran.
- 5- Educational Workshop “*Endnote Software*” in November 2014

- 6- Educational Workshop “*Research Methodology*” in April 2015.
- 7- Educational Workshop “*laboratory Animals*” in October 2015.
- 8- Educational Workshop “*q-PCR*” in December 2016.
- 9- Educational Workshop “*Science Direct, Science Direct Topics, Scopus*” in September 2021.
- 10- Educational Workshop “*VOSviewer & BibExcel*” in July 2021.

LABORATORY SKILLS:

- ✓ Animal Behavioral Tests:
 - Narrowing Beam Test (NBT)
 - Basso, Beattie, Bresnahan (*BBB*) Test
 - Open Field
 - Rotarod Performance Test
- ✓ Animal Stereotaxic Surgeries
- ✓ Electromyography
- ✓ Histology Techniques: H&E, Nissl, *Trichrome*, *PAS*, *IHC*, *IF*, *Luxol Fast Blue* Staining
- ✓ Spinal Cord Injury Animal Models
- ✓ Wound Healing Animal Models

COMPUTER SKILLS:

- ✓ Microsoft Office
- ✓ Spss
- ✓ Graphpad Prism
- ✓ Image J
- ✓ Photoshop

ACADEMIC PROFILES:

- ✓ [Google Scholar](#)
- ✓ [ResearchGate](#)
- ✓ [ORCID](#)
- ✓ [Researcher-ID](#)
- ✓ [Scopus](#)

- ✓ [Semantic Scholar](#)
- ✓ [ISID](#)