

**Contact Information:**

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Personal Data:

Date of Birth: 1985, February 1

Place of Birth: Khorram abad

Nationality: Iran

Marital Status: Married

Education:

- Bachelor of Animal biology, Chamran University, Ahwaz, Iran. (2003-2007)
- Master of Animal Physiology, Ferdowsi University, Mashhad, Iran. (2007-2010)
- PhD in Neuroscience, Shahid Beheshti University of Medical Sciences, Tehran, Iran. (2012-2017)

Fields of Research:

- Cellular, molecular and behavioral neuroscience
- Neurodegenerative diseases; Parkinson's disease

Ongoing projects:

1. Evaluating the effect of intranasal insulin administration on motor and non-motor symptoms in Parkinson's disease patients; a randomized double-blinded placebo-controlled clinical trial
2. Evaluating the effect of intranasal administration of interferon beta on motor impairments in a rat model of Parkinson's disease

3. Evaluating the effect of *Ficus carica* Linn. fruit extract on learning and memory impairments in animal model of Alzheimer's disease
4. The effect of intranasal administration of oxytocin on cognitive and memory impairments in the Alzheimer's like model in male and female rats

Publications:

1. Neda Valian, Abolhassan Ahmadiani and Leila Dargahi. "Escalating methamphetamine regimen induces compensatory mechanisms, mitochondrial biogenesis, and GDNF expression, in substantia nigra." *Journal of cellular biochemistry* 118.6 (2017): 1369-1378. doi: 10.1002/jcb.25795
2. Neda Valian, Abolhassan Ahmadiani and Leila Dargahi. "Does Repeated Methamphetamine Exposure at Different Regimens Cause Parkinsonian-Like Behavior in Rats?" *Iranian journal of pharmaceutical research: IJPR* 17.2 (2018): 543-552. PMID: 29881412, PMCID: PMC5985172
3. Neda Valian, Abolhassan Ahmadiani and Leila Dargahi. "Increasing methamphetamine doses inhibit glycogen synthase kinase 3 β activity by stimulating the insulin signaling pathway in substantia nigra." *Journal of cellular biochemistry* 119.10 (2018): 8522-8530. doi: 10.1002/jcb.27082
4. Neda Valian, Mansooreh Heravi, Abolhassan Ahmadiani and Leila Dargahi. "Effect of methamphetamine on rat primary midbrain cells; mitochondrial biogenesis as a compensatory response." *Neuroscience* 406 (2019): 278-289. doi: 10.1016/j.neuroscience.2019.03.016
5. Leila Mohaghegh Shalmani, Neda Valian, Safura Pournajaf, Fatemeh Abbaszadeh, Leila Dargahi, Masoumeh Jorjani. "Combination therapy with astaxanthin and epidermal neural crest stem cells improves motor impairments and activates mitochondrial biogenesis in a rat model of spinal cord injury". *Mitochondrion* 52 (2020): 125–134. <https://doi.org/10.1016/j.mito.2020.03.002>
6. Pournajaf, Safura, Neda Valian, Leila Mohaghegh Shalmani, Pariya Khodabakhsh, Masoumeh Jorjani, and Leila Dargahi. "Fingolimod increases oligodendrocytes markers expression in epidermal neural crest stem cells." *European Journal of Pharmacology* (2020): 173502.
7. Neda Valian, Mansooreh Heravi, Abolhassan Ahmadiani and Leila Dargahi. "Comparison of Rat Primary Midbrain Neurons Cultured in DMEM/F12 and Neurobasal Mediums." *Basic and Clinical Neuroscience* 12 (2021): 2; 205-212. <http://dx.doi.org/10.32598/bcn.12.2.1568.1>.
8. Neda Valian, Marziyeh Sorayya, Sareh Asadi, Fatemeh Sherafati, Ali Ershad, Sara Savaheli, Abolhassan Ahmadiani. "Preconditioning by ultra-low dose of tramadol reduces the severity of tramadol-induced seizure: contribution of glutamate receptors". *Biomedicine & Pharmacotherapy* 133 (2021) 111031.
9. Farideh Iravanpour, Leila Dargahi, Mohsen Rezaei, Masoud Haghani, Reza Heidari, Neda Valian, Abolhassan Ahmadiani. "Intranasal insulin improves mitochondrial function and attenuates motor deficits in a rat 6-OHDA model of Parkinson's disease". *CNS Neuroscience & Therapeutics* (2021): 00:1–12.
10. Sara Chavoshinezhad, Mohammad Ismail Zibaii, Mir Hossein Seyed Nazari Abdolaziz Ronaghi, Afsaneh Asgari Taei, Ahmad Ghorbani, Sareh Pandamooz, Mohammad Saied Salehi, Neda Valian, Fereshteh Motamedi, Abbas Haghparast, Leila Dargahi. "Optogenetic stimulation of entorhinal cortex reveals the implication of insulin signaling in adult rat's hippocampal neurogenesis". *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 111 (2021) 110344.

Poster presentations:

1. The 19th Iranian Congress of Physiology and Pharmacology, 2009, Tehran, Iran. "The effect of *Hypericum perforatum* L. aqueous extract on pentylenetetrazol- induced kindling in rat"
2. The 1st International and 22nd Iranian Congress of Physiology and Pharmacology, 2015, Kashan, Iran. "Repeated administration of different methamphetamine doses has no effect on motor performance of rat"
3. The 5th Congress of Basic and Clinical Neuroscience, December, 2016, Tehran. "The effect of repeated escalating methamphetamine regimen on tyrosine hydroxylase, alpha synuclein and neuroinflammation in substantia nigra and striatum"
4. The 13th International Conference on Alzheimer's & Parkinson's, 2017, Vienna, Austria. Abstract No: ADPD7-0543 "Increasing methamphetamine doses up regulated genes involved in mitochondrial biogenesis and GDNF expression in substantia nigra"
5. The 7th Congress of Basic and Clinical Neuroscience, December, 2018, Tehran. "Effect of methamphetamine on mitochondrial biogenesis and alpha-synuclein in rat primary dopaminergic neurons"

Professional qualifications:

1. The 1st Tehran International Congress of Basic and Clinical Neuroscience, 2012 (Student Committee)
2. The 2nd Tehran International Congress of Basic and Clinical Neuroscience, 2013 (Student Committee)
3. Workshop; Brain Dissection Workshop, Iran University of Medical Sciences, 2013.
4. Workshop; Methods of Search in Scientific Websites, Shahid Beheshti University of Medical Sciences, 2013.
5. The 1st Tehran Cell Death Symposium, 2014 (Executive Committee)
6. The 4th Tehran IBRO School of Neuroscience, 2014 (Taught in Behavioral animal lab)
7. The 1st Tehran Neuroscience Summer School, 2015 (Taught in Histological lab)
8. The 5th Tehran IBRO School of Neuroscience, 2016 (Taught in Behavioral animal lab; Executive Committee)
9. The 6th Tehran IBRO School of Neuroscience, 2017 (Taught in Molecular lab & Cell culture lab)
10. Workshop; Author Workshop by Elsevier; Introduction to scholarly publishing, Shahid Beheshti University of Medical Sciences, Tehran, 2018.
11. Workshop; Good Clinical Practice in Clinical Trials, Iran University of Medical Sciences, Tehran, 2019.
12. Workshop; Bioinformatics, Tehran University of Medical Sciences, 2021.
13. Workshop; Ethics in Researches- Plagiarism, Sport Sciences Research Institute of Iran, 2021.
14. Workshop; Mendeley Data, Birjand University of Medical Sciences, 2021.
15. Workshop; Scopus, ScienceDirect and ScienceDirect Topics, Birjand University of Medical Sciences, 2021.
16. Workshop; Ethics in Researches- Publishing, Birjand University of Medical Sciences, 2021.

Professional memberships:

- Member of cell death in Iran, since 2011.
- Iranian Society of Neuroscientists, since 2011.