Curriculum Vitae

1) Personal Information:

First name: *Mohammad* **Surname:** *Karimipour*

Gender: *Male* **Nationality:** *Iranian*

Date of birth: *Year: 1977 Month: 12 Day: 20*

Place of Birth: *Khoy, West Azerbaijan, Iran*

Occupation: *Assistant Professor of Anatomical Sciences*

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Address:

Department of Anatomical Sciences, 3rd floor of the Faculty of Medicine, Tabriz University of Medical Sciences ,Golghasht Street, Tabriz, Iran

E-mail: *karimipourm@tbzmed.ac.ir, karimipourm@yahoo.com*

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2) Educational background:

Degree	Course	University	Date
B.Sc.	*Nursing*	*Uremia University of Medical Sciences*	*1996-2000*
M.Sc.	*Anatomical Sciences*	*Shiraz University of Medical Sciences*	*2000-2004*
Ph.D	*Anatomical Sciences, minor Regenerative Neuroscience*	*Isfahan University of Medical Sciences*	*2008-2014*
Research Course	*Neural Stem Cell Biology*	*Gothenburg University (Sweden)*	*2012- 2013*

3) Scientific Societies:

1) Member of Academic staff of the Departments of the Anatomical Sciences &affiliated member of Neuroscience, Applied Cell Sciences & Tissue Engineering Departments, Tabriz University of Medical Sciences, Tabriz, Iran

2) *Member of Iranian Neuroscience Society*
3) *Member of Iranian Society of Anatomical Sciences*
4) *Member of Institute for Stem Cell Biology and Regenerative Medicine*

4)Teaching interests

1) Human Neuroanatomy
2) Human Neuroembryolog and Neurohistology
3) Neurodegeneratin and Neuroregeneration
4) Head and Neck Anatomy
5) Human Brain Dissection

5) Subjects of Research:

1) Embryonic and Adult Neural Stem Cell Biology
2) Adult Neurogenesis and Gliogenesis
3) Research in Regenerative Neuroscience
4) Neural Tissue Engineering
5) Molecular, Cellular and Behavioral Neuroscience
6) Hole-Cell Patch Clamp Electrophysiology
7) Cellular and Molecular Aspects of Differentiation of Neural Stem Cells
8) Animal Models of Neurodegenerative Disease and Regeneration
9) Demyelinating Disorders and Remyelination Strategies
10) Cellular and Molecular Mechanisms in Neurodegenerative Medicine

6) Publications:

A) Book:

1- Khaki A.A, Karimipour M, Karimfar M.H, Karimi KH; Neuroanatomy, For Medical Sciences Students. 2nd Ed; 2005.

B) Published Articles in International and Iranian journals:

1- Karimipour Mohammad, Nano-featured poly (lactide-coco-glycolide)-graphene microribbons as a promising substrate for nerve tissue engineering. Composites Part B: Engineering; 2019,5,15.

2- Karimipour Mohammad, Quercetin promotes learning and memory performance concomitantly with neural stem/progenitor cell proliferation and neurogenesis in the adult rat dentate gyrus. Int J Dev Neurosci. 2019 May; 74:18-26.

3- Karimipour Mohammad, Effect of cerebral dopamine neurotrophic factor on endogenous neural progenitor cell migration in a rat model of Parkinson's disease. EXCLI J. 2019 Mar 5;18:139-153. eCollection 2019.

4- Karimipour Mohammad, Novel Effects of Rosa damascena Extract on Patients with Neurocognitive Disorder and Depression: A Clinical Trial Study. Int J Prev Med. 2018 Jun 29;9:57.

5- Karimipour Mohammad, NK cells: An attractive candidate for cancer therapy. J Cell Physiol. 2019 Apr 16.

6- Karimipour Mohammad, Neurotrophic factors hold promise for the future of Parkinson's disease treatment: is there a light at the end of the tunnel? Rev Neurosci; 2018, 6.

7- Karimipour Mohammad, Exosomes and their Application in Biomedical Field: Difficulties and Advantages. Molecular Neurobiology; 2017,4.

8- Karimipour Mohammad, Integration of the neural stem and progenitor cells into existing neuronal circuitry and adult neurogenesis in the dentate gyrus of the hippocampus. Exp Clin Neurosci; 2017, 4(1): 1-6.

9-Karimipour Mohammad, Human adipose-derived mesenchymal stem cells improve neuropathology and cognitive impairment in a rat model of Alzheimer's disease through modulation of neurogenesis and synaptic plasticity. In review in Stem Cell Research. 2019.

10–Esfandiari Ebrahim, Karimipour Mohammad, Mardani Mohammad, Alaei Hojjatallah, Ghannadian Mustafa, Mohammadnejad Daryoush, Kazemi Mohammad, Hosseini Nasrin, Esmaeili Abolghasem: Novel effects of Rosa damascena extract on memory and neurogenesis in a rat model of Alzheimer's disease. Journal of Neuroscience Research. 2014; 92(4):517-30.

11- Esfandiari Ebrahim, Karimipour Mohammad, Mardani Mohammad, Alaei Hojjatallah, Ghannadian Mustafa, Mohammad nejad Daryoush, Esmaeili Abolghasem: Neuroprotective effects of the Rosa damascena extract on learningand memory in a rat model of amyloid-β induced Alzheimer's disease. Adv Biomed Res. 2015 27; 4:131.

*12- Manipulation of the Endogenous Neurotrophic factors: a Promising Therapy in Alzheimer Diseases (Hypothetic Study): Alzheimers& Dementia.*2011; 7(4).

13- Noorafshan A, Karimipoor M, Bahmanpoor S, Dehghani F. The Influence of Exposure to Stress of Pregnant Rats on the Adrenal Gland Structure of their Offspring. An Unbiased Stereological Study.Scand.J.Lab. Anim. Sci. No. 2005; 3(32).

14- D.M.Nejad, J.S.Rad, L.Roshangar, M.Karimipor, A.Aazami and M.R. Valilou, A study on the effect of thiotepa on mice spermagenesis using Light and Electronic Microscope. Pakistan Journal of Biological Sciences. 2008; 11 (15): 1929-1934.

15- Shimia M, Vahedi P, Lotfinia I, Karimipour M, Localization in lower lumbar surgery: Is Anatomy Enough? Neurosurgery Quarterly. 2008; 18 (3):159-162.

C) Published Articles In International and Iranian Congresses:

1- Human mesenchymal stem cells promote functional improvement through coupling expression of neurotrophic factors and neural stem cell differentiation in a rat model of Alzheimer's disease. 6Th Basic & Clinical Neuroscience Congress. Tehran, Iran, December 20-22, 2017.

2- The Role of Graphene Oxide Coating on Polymeric Wet Spun Microribbons in Neural Tissue Regeneration. The Second National Festival and International Congress on Stem Cell and Regenerative Medicine. Tehran, Iran, 13-15 July 2017.

3- Approaches for making the scaffolds contained microribbons in neural tissue engineering. 3rd Iranian Congress on Progress in Tissue Engineering and Regeneratinve Medicine. Tehran, Iran, October 19-21, 2016.

4- Alzheimer's treatment using Regenerative Medicine: How Do Neural Stem Cells and New-Generating Neurons Affect Learning and Memory in the Alzheimer's Disease? The First National Festival& International Congress of Stem Cell and Regenerative Medicine. 19-21 May, 2016.

5-The novel effects of Rosa Damascena extract on memory and neurogenesis in a rat model of Alzheimer's disease:7th Asia Pacific International Congress of Anatomists(APICA).Singapore,March,17-20, 2016.

6- From Neural Stem Cells to Integration of New Generating Neurons in Existing Hippocampal Circuitry: A New Promising Approach for Management and Treatment of the Alzheimer's disease.4Th Basic & Clinical Neuroscience Congress. Tehran, Iran, December 23-25, 2015.

7 - Neural Stem Cell Discovery as a Revolution Phenomenon in the CNS Regeneration.4ThBasic & Clinical Neuroscience Congress. Tehran, Iran, December 23-25, 2015.

8- Co- application of the Neural Stem Cells and Peptide Amphiphile Tenascin-C Nanobiomaterial for Neural Tissue Regeneration in Stroke Disease.2nd Iranian Congress on Progress in Tissue Engineering and Regeneratinve Medicine. Tehran, Iran, November7-9, 2015.

9-From Neural Stem Cells to Neural Tissue Regeneration: Co- application of Neural Stem Cells and Nanobiomaterials in a Mouse Model of Photochemical Stroke,3 rd Basic and Clinical Neuroscience Congress. Tehran, Iran, October 29-31, 2014.

10-Quercetin as a natural Bioflavonoid stimulates proliferation and differentiation of neural stem cells and promotes clinical recovery in a rat model of Alzheimer's disease, 3 rd Basic and Clinical Neuroscience Congress. Tehran, Iran, October 29-31, 2014.

11- Manipulation of the Endogenous Neurotrophic factors: a Promising Therapy in Alzheimer Diseases (Hypothetic Study): Alzheimer association International Conference. Paris, France. July 16-21, 2011.

12- Therapeutic Potential of Neurotrophic Factors in Neurodegenerative Diseases: 3rd International Congress on Stem Cells and Tissue Formation. Dresden, Germany, July 11-14, 2010.

13- Mesenchymal Stem Cell Transplantation in Multiple Sclerosis (MS) Disease.7th International congress of MS. Tehran. Iran. Nov 4-5, 2010.

14- Stem Cell Transplantation: A Promising Therapy for Multiple Sclerosis (MS) Disease.6th International Iranian Congress MS, Tabriz, Iran, October-15-16, 2009.

15- Histopathological study of prenatal stress, on Adrenal Gland Total Volume and Absolute volume of Glomeroloza, Fasciculata, Reticularis Layers and Medulla in 21 days neonate Rats: A Stereological study. 20th European Congress of Pathology. Paris, France, September3-8, 2005.

16- Effect of prenatal stress on the suprarenal gland volume of neonate rats. An unbiased stereological Study.1st Iranian Conference for Cell and Developmental Biology. Tehran University, 13-14 Sep, 2003.

17-The stereological study of the effect of prenatal stress on the cortex and medulla of the suprarenal gland in male neonate rats. 2th Congress of preventive from endemic diseases, the research center endocrine glands and metabolism-shahid Beheshti University, march,8-11, 2003.

18-The stereological study of the effect of prenatal stress on the zona glomeroloza, fasciculate ,reticularis and medulla of the adrenal gland in 21 days male rat.6th international congress of anatomical sciences. Shiraz-Iran,may 7-9, 2004.

19-The Investigation of the anatomical differentiation of fifth and four vertebral lamina. 7thIranian Congress of Anatomical sciences, Kashan University of Medical Sciences, 10-12 May, 2006.

20- Study the number of sertoly cells, SI and TDI in adult mice treated with thiotepa and GnRH antagonist. Fifth Asian Pacific International Congress of Anatomy, May 16-19, 2008.

21- A rare association superior laryngeal nerve with sympathetic trunk. Fifth Asian Pacific International Congress of Anatomy, May 16-19, 2008.

7)Workshops Attended

1- *Research methodology, RDCC, Tabriz University of Medical Sciences, Tabriz, Iran, 17, 20 of October, 2016.*

2- *Research Ethics, RDCC, Tabriz University of Medical Sciences, Tabriz, Iran, 6 of October, 2016.*

3- *Scientific Writing and publicationSkills, RDCC,Tabriz University of Medical Sciences, Tabriz, Iran, 9 of December, 2016.*

4- *Human brain dissection workshop, 3rd Basic and Clinical Neuroscience Congress. Tehran, Iran, October 30, 2014.*

5- *SDS-PAGE and Western Blotting, Biology Department of University of Isfahan, Isfahan, Iran, 20-21 of February 201.*

6- *First Annual Workshop on Neural Stem Cells, National Institute of Genetic Engineering and Biotechnology. Tehran-Iran,26-30 October 2011,*

7- *Real Time RT-PCR Workshop, Royan Institute, Tehran, Iran, 2010.*

8- *Flow cytometry and Immunocytochemistry Workshop, Stem Cell Technology Research Center, Tehran, Iran, 2009.*

9- *The methods of processing of tissue and working with Transmission Electron Microscope, Applied Drug Research Center, Tabriz University of Medical Sciences, Tabriz, Irans,2007.*

10- *The methods of cell culture, The Research Center of Shiraz University of Medical Sciences .Shiraz, Iran, 2003.*

11- *Stereology, Three-dimensional measurement, Shiraz University of Medical Sciences. Shiraz, Iran, 2002.*

12- *The processing of tissue for Light & Transmission Electron Microscope, Shiraz University of Medical Sciences, Shiraz, Iran, 2003.*

13- *The methods of working with laboratory animals, injection and sampling, Applied Drug Research Center, Tabriz University of Medical Sciences,Tabriz,Iran, 2006.*

14- *Dissection of Human body, Shiraz University of Medical Sciences. Shiraz, Iran, 2000-2003.*

8) Approved Thesis Committee

A) Thesis Supervisor:

1- *M.Sc. thesis in Anatomical Sciences, entitled ((The evaluation of the effect of PCLF(poly-caprolactone fumarate) three- dimensional scaffold on the proliferation and differentiation of neural stem cells derived from the sub-ventricular zone in the adult mice)), 2016- 2017, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.*

*2 - M.Sc. thesis in Anatomical Sciences, entitled ((The comparison of the effect of (PLGA) and (PLGA-PEG) Poly (Lactide-Co-Glycolide)/Polyethylene Glycol biomaterials on proliferation and neural differentiation of human neural SH-SY5Y cells**))**, 2018- 2019, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.*

*3- M.Sc. thesis in Anatomical Sciences, entitled ((The comparison of the effect of (PLGA) and (PLGA-PEG) Poly (Lactide-Co-Glycolide)/Polyethylene Glycol biomaterials on synaptogenesis and neural arborization of human neural SH-SY5Y cells**))**, 2018- 2019, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.*

4- M.Sc. thesis in Anatomical Sciences, entitled ((The effect of neurotrophic factors-secreting cells on synaptogenesis and Tau protein phosphorylation in an in vitro model of Alzheimer's desease)), 2019- 2020, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.

B) Thesis Supervisor:

1- *PhD thesis in Neuroscience, entitled ((Reelin loaded glycoprotein PLGA-PEG supportive role on extending regenerative potential of the neural stem cells after ischemic stroke model of mice ischemia)), 2019- 2021, Department of Neuroscience, Advanced Biomedical Faculty of, Tabriz University of Medical Sciences, Tabriz, Iran.*

2- *The Evaluation of the Effect of Neurotrophic Factor–Secreting Cells (Astrocyte Like Cells) on Neurogenesis in Hippocampus and Cognitive Behavior in Alzheimer, s Disease Animal Model, 2019- 2021, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.*

C)Thesis advisor:

1- *Ph.D thesis in Molecular medicine, Entitled ((Study of CDNF-Loaded PLLA Nanobiomaterial Effect on Endogenous Neural Stem Cell Migration and Functional Recovery in a Rat Model of Parkinson′s disease)), 2016-2018, Department of Molecular*

Medicine, Faculty of Advanced Biomedicine, Tabriz University of Medical Sciences , Tabriz, Iran.

2- *Ph.D thesis in Pharmaceutics, Entitled ((Synthesis and characterization of biocompatible poly aniline derivates as electro conductive scaffolds and study of their influence on stem cell behavior)), 2016-2018, Department of Pharmaceutics, Faculty of Pharmacy, Tabriz University of Medical Sciences , Tabriz, Iran.*

3- *Ph.D thesis in Biomaterial, Entitled ((Fabrication and characterization of a hybrid scaffold for controlling the neural stem cell function)), 2017-2019, Department of Biomaterials, Faculty of Material Engineering, Isfahan University of Technology, Isfahan, Iran.*

4- *PhD thesis in Anatomical Sciences, entitled ((The investigation of the effect of neural stem cells and hyaluronic acid hydrogel loaded with tenascin C glycoprotein to reconstruction of sensorimotor cortex in a mouse model of photochemical ischemia)), 2019- 2021, Department of Anatomical Sciences, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran.*

9) Projects:

	Title	**Director/ colleague**	**Date**	**Institution**
1	The comparison of the effect of PCLF(poly- caprolactone fumarate) three- dimensional scaffold on the behavior of adult neural stem cells derived from the sub-ventricular zone and the dentate gyrus in the adult mice	Director	2017-2019	1- Department of Anatomical Sciences Tabriz University of Medical Sciences 2- Stem Cell Research Center, Tabriz University of Medical Sciences
2	The evaluation of co-application of neural stem cells and a hybrid scaffold consisting of poly(lactic-co-glycolic acid) micro-ribbons/self-assembling nanofiber peptide (RADA 16) and hyaluronic acid for the regeneration and repair of damaged neurovascular system in the stroke disease	Director	2017-2019	1- Department of Anatomical Sciences Tabriz University of Medical Sciences 2- Stem Cell Research Center, Tabriz University of Medical Sciences
3	Study of CDNF-Loaded PLLA Nanobiomaterial Effect on	Colleague		1-Department of Anatomical Sciences Tabriz University of

	Endogenous Neural Stem Cell Migrationand Functional Recovery in a Rat Model of Parkinson′s disease		2017-2019	Medical Sciences 2-Stem Cell Research Center, Tabriz University of Medical Sciences
4	The evaluation of the effect of PCLF(poly- caprolactone fumarate)three- dimensional scaffold on the behavior of neural stem cells derived from the sub-ventricular zone in the adult mice	Director	2017-2018	1- Stem Cell Research Center, Tabriz University of Medical Sciences 2- Department of Anatomical Sciences Tabriz University of Medical Sciences
5	Fabrication and characterization of a hybrid scaffold for controlling the neural stem cell function	Colleague	2017-2019	1-Stem Cell Research Center, Tabriz University of Medical Sciences 1- Department of Anatomical Sciences Tabriz University of Medical Sciences
6	Synthesis and characterization of biocompatible poly aniline derivate as electro conductive scaffolds and study of their influence on stem cell behavior	Colleague	2017-2019	1- Drug Applied Research Center, Tabriz University of Medical Sciences 2- Stem Cell Research Center, Tabriz University of Medical Sciences
7	Study the behavior of neural stem cells in the context of stroke and neuroplasticity	Director	2012-2014	Center for Brain Repair , Institute for neuroscience and physiology, Gothenburg university, Sweden
8	Effect of the transplantation of adipose-derived mesenchymal stem cells on memory , neurogenesis and synaptic plasticity mechanisms in a rat model of Alzheimer`s disease	Director	2012-2013	Department of Anatomical Sciences and Molecular Biology, Isfahan University of Medical Sciences
9	Neuroprotective effects of quercetin on learning and memory through adult neurogenesis and synaptic plasticity mechanisms in a rat model of Alzheimer`s disease	Director	2012-2013	Department of Anatomical Sciences and Molecular Biology, Isfahan University of Medical Sciences
	Study of the effect of Rosa damascene extract on leaning, spatial and long-		2012-	Department of Anatomical Sciences and Molecular

10	term memory, neurogenesis and synaptic plasticity mechanisms in a rat model of Alzheimer`s disease	Colleague	2014	Biology, Isfahan University of Medical Sciences
11	Induction of neurotrophic factor-secreting cells(NTF-SC) from human adipose tissue-derived stem cells and evaluation efficiency of (NTF-SC) after transplanting in model of multiple sclerosis diseases	Colleague	2011-2012	Department of Anatomical Sciences and Molecular Biology, Isfahan University of Medical Sciences
12	Evaluation of Ultrastructral changes and proliferation in adult mice testis: following thiotepa and GnRH antagonist therapy.	Colleague	2006-2008	Department of Anatomical Sciences Tabriz University of Medical Sciences

10) References:

1- *H. Georg Kuhn, PH.D, Professor for Regenerative Neuroscience, Center for Brain Repair and Rehabilitation, Institute for Neuroscience and Physiology, University of Gothenburg, Sweden*
E-mail: georg.kuhn@neuro.gu.se

2- *Ebrahim Esfandiari, PH.D, Professor of Anatomical Sciences, post doct of Neuroscience, Department of Anatomical Sciences, Faculty of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran*
E-mail: esfandiari@med.mui.ac.ir

3- *Jafar Soleimanirad, PH.D, Professor of Embryology and histology, Department of Anatomical Sciences , Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran*
E-mail: soleimanirj@yahoo.com

4- *Soghra Bahmanpour,PH.D, Professor of Anatomical Sciences, Department of Anatomical Sciences, Faculty of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran*
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