

Curriculum Vitae



Personal Information

First name: Mohammad Ghasem

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Date of birth: 31-3-1971

Place of birth: Khalkhal-IRAN

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Education and Qualification:

2010-2011: Fellowship of ART [IVF, Clinical Human Embryology], Royan Infertility Clinic, Royan Institute, Tehran, Iran.

2005-2007: Two years (2005-2007) occupational trainee-position in Neural stem cells biology at the Queensland Brain Institute- University of Queensland-Australia.

2001-2007: **PhD** in Anatomical Sciences Esfahan University of Medical Sciences (MUI) Esfahan, Iran and Queensland Brain Institute, University of Queensland, Australia.

Title of Thesis: Determination of the Prevalence and Distribution of Neural Stem and Progenitor Cells along the Entire Ventricular Neuraxis of the Adult Mouse Brain.

1995-1998: **MSc** in Anatomical Sciences, Tarbiat Modares University (TMU), Tehran, Iran.

Title of Thesis: The Effect of Low Power He-Ne Laser on Healing of the Open Skin Wound in Rat.

1991-1995: **BSc** in Physical Therapy, Semnan University of Medical Sciences, Semnan, Iran.

Employment:

1998-Present Professor, Faculty Member of Ardabil University of Medical Sciences, Ardabil, Iran.

Teaching interests:

1. Gross anatomy of human body
2. Human embryology
3. Human histology

Research Interests:

1. Neural Stem Cells Biology
2. Cell Replacement Therapy of Neurological Diseases
3. Development of new technologies for neural cell selection and Isolation
4. Molecular aspects of gamete maturation and embryo development
5. Molecular aspects of gamete and embryo freezing
6. Molecular and cellular events of embryo implantation

Publications:

Articles

Peer-reviewed International:

1. Maryam Salem, Narjes Feizollahi, Ayob Jabari, **Mohammad Ghasem Golmohammadi**, Armaghan Shirinsokhan, Nasrin Ghanami Gashti, Alieh Bashghareh, Aghbibi Nikmahzar, Yasaman Abbasi, Mohammad Naji, Mehdi Abbasi; Differentiation of human spermatogonial stem cells using a human decellularized testicular scaffold supplemented by platelet-rich plasma. *Artif Organs*, May;47(5):840-853 (2023).
2. **Mohammad Ghasem Golmohammadi**, Shokofeh Banaei, Mojgan Timar, Ali Abedi; Saponin protects against cyclophosphamide-induced kidney and liver damage via antioxidant and anti-inflammatory actions. *Physiol Int*, May 31;110(2):108-120. (2023).
3. Fatemeh Khoshdel, **Mohammad Ghasem Golmohammadi**, Mohammad Jannatdoust, Nowruz Najafzadeh, Ramin Salimnejad; **Impact** of caffeic acid on the testicular damages in D-galactose induced aging model in mice. *Iranian Journal of Basic Medical Sciences*, Vol. 25, No. 10, Oct (2022).
4. Mojgan Timar, Shokofeh Banaei, Zahra Mehraban, Ramin Salimnejad, **Mohammad Ghasem Golmohammadi**, Protective effect of saponin on sperm DNA fragmentation of mice treated with cyclophosphamide. *Andrologia*, Vol. 54, No. 2, March (2022).
5. **Mohammad Ghasem Golmohammadi**, Effects of embryonic stem cell-conditioned medium on the preimplantation development of mouse embryos. *Zygote*, Vol. 30, No. 4: 464-470, Aug (2022).
6. **Mohammad Ghasem Golmohammadi**, Fatemeh Khoshdel, Ramin Salimnejad; Protective effect of Resveratrol against Bisphenol A-induced reproductive toxicity in male mice. *Toxin Reviews*, 19 Oct, Pages 959-967 (2022).
7. **Mohammad Ghasem Golmohammadi**, Khadijeh Nasiri, Mohsen Sagha, Vahideh Agha mohammadi, AlirezaMalekrah, MozghanEskandari; Variation of superficial veins of cubital fossa among students of Ardabil University of Medical Sciences. *Translational Research in Anatomy*, Volume 25, November (2021), 100136.
8. **Mohammad Ghasem Golmohammadi**, ShokofehBanaei, EhsanAzimian; Mechanistic evaluation of linalool effect against renal ischemia- reperfusion injury in rats. *Drug Research* (2021), Sep;71(7):372-378.
9. Vahideh Miri, Abdollah Asadi, Mohsen sagha, Nowruz Najafzadeh, **Mohammad Ghasem Golmohammadi**, Poly (L-lactic acid) nanofibrous scaffolds support the proliferation and neural differentiation of mouse neural stem and progenitor cells. *International Journal of Developmental Neurosciences*, Volume 81, Issue 5, 438 – 447, (2021).

10. Zahra Mehraban, Marefat Gaffari Novin, **Mohammad Ghasem Golmohammadi**, **Hamid Nazarian**; **Effect** of *Ceratonia siliqua* L. extract on DNA Fragmentation of Sperm in Adult Male Mice Treated with Cyclophosphamide. *Reproductive Sciences* volume 28, pages 974–981(2021).
11. **Mohammad Ghasem Golmohammadi**, Shokofeh Banaei, Kazem Nejati & Mir Mehdi Chinifroush-Asl: Vitamin D3 and erythropoietin protect against renal ischemia-reperfusion injury via heat shock protein 70 and microRNA-21 expression. *Scientific Reports*, volume 10, Article number: 20906 (2020).
12. **Mohammad Ghasem Golmohammadi**, Ali Shahbazi, Mir Mehdi Chinifroush Asl, Shokofeh Banaei: Calcitriol and Erythropoietin Protect Against Cardiac Injury Induced by Renal Ischemia-Reperfusion. *Biointerface Research in Applied Chemistry*, Volume 10, Issue 6, 2020, 6718 – 6727.
13. Mohammad rahmani, **Mohammad Ghasem Golmohammadi**, Asadolla asadi, amir delavar, Farah Farokhi: Wharton’s Jelly-derived Mesenchymal Stem Cells and Polycaprolactone/Hydroxyapatite (PCL/HA) Scaffold for Bone Tissue Engineering. *The Egyptian Journal of Histology*, Volume 43, Issue 2, June 2020, Page 496-508.
14. **Mohammad Ghasem Golmohammadi**, Reza Ajam, Ali Shahbazi, Mir Mehdi Chinifroush-Asl, Shokofeh Banaei: Protective effect of vitamin D3 and erythropoietin on renal ischemia/reperfusion-induced liver and kidney damage in rats. *J Herbmед Pharmacol.* 2020; 9(3): 293-299.
15. Zahra Mehraban, Marefat Ghaffari Novin, **Mohammad Ghasem Golmohammadi**, Mohsen Sagha, Seyed Ali Ziai Mohammad Amin Abdollahifar, Hamid Nazarian: Protective Effect of Gallic Acid on Testicular Tissue, Sperm Parameters, and DNA Fragmentation against Toxicity Induced by Cyclophosphamide in Adult NMRI Mice. *Urology Journal*, Vol. 17 No. 1 (2020), 26 January 2020, Page 78-85.
16. Zahra Mehraban, Marefat Ghaffari Novin, **Mohammad Ghasem Golmohammadi**, Mohsen Sagha, Khashayar Pouriran, Hamid Nazarian: Protective effect of gallic acid on apoptosis of sperm and in vitro fertilization in adult male mice treated with cyclophosphamide. *Journal of Cellular Biochemistry*, (2019), Volume120, No 10, 17250-17257.
17. Nooshin Sadeghian, Javad Shadman, Alireza Moradia, **Mohammad ghasem Golmohammadi**, HamdollahPanahpour: Calcitriol protects the Blood-Brain Barrier integrity against ischemic stroke and reduces vasogenic brain edema via antioxidant and antiapoptotic actions in rats, *Brain Research Bulletin*, Volume 150, August 2019, Pages 281-289.
18. Rouhollah Gazor, Mozghan Eskandari, Alireza Sharafshah, Mohammad Hadi Bahadori, **Mohammad Ghasem Golmohammadi**, Parvaneh Keshavarz: Assessment of EGFR Gene Expression Following Vitrification of 2-cell and Blastocyst Mouse Embryos. *Avicenna Journal of Medical Biotechnology*, Vol. 10, No. 2, April-June 2018.

19. Mohammad Mohammadzadeh-Vardin, Hamdollah Panahpour, **Mohammad Ghasem Golmohammadi**, Mohsen Sagha: Protein Delivery of Thymidylate Kinase Mediated by Tumor-Specific Antibody-Precoated Microvesicles. *Critical Reviews™ in Eukaryotic Gene Expression*. 2016 pages 11-17, 10.1615/CritRevEukaryotGeneExpr.v26.i1.20.
20. Mohammad Mohammadzadeh-Vardin, Hamdollah Panahpour, **Mohammad Ghasem Golmohammadi**, Mohsen Sagha: Spongious therapy of iron overload with hipcidin overexpressed macrophages. *Macrophage* 2016; 3: e1107. doi: 10.14800/Macrophage.1107.
21. Elnaz Pirmoazen, Maryam Matin, Nowruz Najafzadeh, **Mohammad Ghasem Golmohammadi**, Mohsen Sagha: Retinoic acid recapitulates the action of the somites on neural differentiation of the developing caudal neural plate in chick embryo. *Neurochemical journal*; October 2015, Volume 9, Issue 4, pp 260-265.
22. Ghanbari A, Esmaeilpour T, Bahmanpour S, **Golmohammadi MG**, Sharififar S, Azari H: Depletion of neural stem cells from the subventricular zone of adult mouse brain using cytosine b-Arabinofuranoside. *Brain and Behavior*; 2015 Oct 15;5 (11).
23. Nazila Niapour, Behnam Mohammadi-Ghalehbin, **Mohammad Ghasem Golmohammadi**, Mohammad Amani, Hossein Salehi, Ali Niapour: Efficacy of optimized in vitro predegeneration period on the cell count and purity of canine Schwann cell cultures. *Iranian Journal of Basic Medical Sciences*, 2015, Volume 18, Issue 3, March 2015, Page 307-311.
24. Nazila Niapour, Behnam Mohammadi-Ghalehbin, **Mohammad Ghasem Golmohammadi**, Mohammad Reza Gholami, Mohammad Amani, Ali Niapour: An efficient system for selection and culture of Schwann cells from adult rat peripheral nerves. *Cytotechnology*, Aug;68(4):629-36. 2016.
25. Nowruz Najafzadeh, Mohsen Sagha, Shirin Heydari Tajaddod, **Mohammad Ghasem Golmohammadi**, Nasim Massahi Oskoui, Maryam Deldadeh Moghaddam: In vitro neural differentiation of CD34+ stem cell populations in hair follicles by three different neural induction protocols. *In Vitro Cell.Dev.Biol.—Animal* (2015) 51:192–203.
26. Nowruz Najafzadeh, Maliheh Nobakht, Bagher Pourheydar, **Mohammad Ghasem Golmohammadi**, Rat hair follicle stem cells differentiate and promoterecovery following spinal cord injury. *Neural Regeneration Research*, Volume 8, Issue 36, December 2013.
27. Rezgar Rahbari, Mohammad Mazani, **Mohammad Ghasem Golmohammadi** and Mohsen Sagha: Downregulation of Caspase-2 Expression in Somitic Cells following Coculture with Chicken Notochord. *ISRN Cell Biology*. 2013; <http://dx.doi.org/10.1155/2013/627912>.
28. Daniel G. Blackmore, Brent A. Reynolds, **Mohammad G. Golmohammadi**, Beatrice Large, Roberto M. Aguilar, Luis Haro, Michael J. Waters & Rodney L. Rietze:

Growth hormone responsive neural precursor cells reside within the adult mammalian brain. *Sci Rep.* 2012; 2: 250. Published online 2012 February 7.

29. Azari H, Osborne GW, Yasuda T, **Golmohammadi MG**, Rahman M, Deleyrolle LP, Esfandiari E, Adams DJ, Scheffler B, Steindler DA, Reynolds BA.: Purification of immature neuronal cells from neural stem cell progeny. *PLoS One.* 2011; 6(6): e20941. Published online 2011 June 3.

30. Bayat M, Azari A, **Golmohammadi MG**: Effects of 780-nm Low-level Laser Therapy with a Pulsed Gallium Aluminum Arsenide Laser on the Healing of a Surgically Induced Open Skin Wound of Rat. *Photomed Laser Surg*, Volume 28, Number 4, 2010 Pp. 465–470

31. Blackmore DG, **Golmohammadi MG**, Large B; Waters MJ, Rietze RL: Exercise Increases Neural Stem Cell Number in a GH-Dependent Manner, Augmenting the Regenerative Response in Aged Mice. *Stem Cells*, 2009; 27:2044-2052.

32. **Mohammad G. Golmohammadi**, Daniel G. Blackmore, Beatrice Large, Hassan Azari, Ebrahim Esfandiary, George Paxinos, Keith B.J. Franklin, Brent A. Reynolds, and Rodney L. Rietze: Comparative analysis of the frequency and distribution of stem and progenitor cells in the adult mouse brain. *Stem Cells*, 2008 Apr; 26(4):979-87.

National Research and Scientific Journals:

1. Matin Maryam, **Golmohammadi MG**, Sagha Mohsen: Isolation and primary culture of chick embryonic neural crest cells. *Cell and Tissue Journal*, 2021, Volume 4, Number 11, p: 275-282.

2. Fatehi Aghdam Maryam, **Golmohammadi MG**, Najafzadeh Nowruz: Evaluation of Cytotoxic Effects of the Combination of Metformin with Docetaxel and 5-Fluorouracil on the Gastric Cancer Cells. *Journal of Isfahan Medical School*, 2021, Volume 38, Number 567, p: 134-141.

3. Panahpour H, Nouri M, **Golmohammadi MG**, Sadeghian N: Effects of the Combination Therapy with Candesartan and Alpha Tocopherol on Brain injury and Edema Following Brain Ischemia in Experimental Model of Transient Focal Cerebral Ischemia in Rats. *Journal of Ardabil University of Medical Sciences*, 2016, Volume 16, Number 2, p: 178-188.

4. Sagha Mohsen, Aghvami Tehrani Azadeh, **Mohammad Ghasem Golmohammadi**: whole mount In Situ Hybridization in Chick Embryo. *New Cellular and Molecular Biotechnology Journal*, Volume 6, Number 21, P: 29-34.

5. Vahide Miri, Fariba Mansourizadeh, Mohsen Sagha , Asadollah Asadi, **Mohammad Ghasem Golmohammadi**: Fabrication and Evaluation of the Morphology, Biodegradability, and Chemical Characteristics of the Nano-Fibrous Scaffold Poly-L-Lactic Acid (PLLA) and its Application in Neural Tissue Engineering. *The Journal of Urmia University of Medical Sciences*, January 2015, Vol. 25(11).

6. Fariba Mansourizadeh, Vahideh Miri, Mohsen Sagha, Asadollah Asadi, **Mohammad Ghasem Golmohammadi**: A comparison of the Growth and Differentiation of the Human Umbilical Cord Mesenchymal Stem Cells on the Poly-L-lactic acid/Hydroxyapatite Composite Scaffold with Pure Poly-L-lactic Acid Scaffold. *J Mazandaran Univ Med Sci*, 2015; 24(120): 133-147.
7. Rahbari R, Mazani M, **Golmohammadi MG**, Mohsen Sagha: Sclerotomal Differentiation of Somitic Cells Co-Cultured with Chicken Embryonic Notochord. *Journal of Cell & Tissue (JCT)*, Spring 2014; 5(1): 71-77.
8. Najafzadeh N, Noubakht M, Mansoori K, Niapour A, **Golmohammadi MG**, : Electromyographic and Behavioral Changes after Transplantation of Hair Follicle Stem Cells into Rats with Spinal Cord Injury by Compression Model. *Journal of Zanjan University of Medical Sciences*, Vol 20, No 83, Bahman and Esfand 2012, pp 31-52.
9. **Golmohammadi MG**, Sagha M, Azari H, Najafzadeh N, : Isolation of Neural Stem and Progenitor Cells from the Adult Mouse Brain Using the Neurosphere Assay. *Journal of Ardabil University of Medical Sciences*, Vol 11, No 3, Autumn 2011, pp 258-246.
10. Noubakht M, Najafzadeh N, Pourheydar B, **Golmohammadi MG**, : Isolation of Rat Hair Follicle Stem Cells and in Vitro Study of Stem Cell Factors. *Journal of Ardabil University of Medical Sciences*, Vol 11, No 2, Summer 2011, pp 176-185.
11. Fathi F, Jafari Kermani A, Golbar MR, Izadpanah E, **Golmohammadi MG**, Mowla J, Askari A: Isolation, Induction of Neural and Glial Differentiation and Evaluating the Expression of Five Self Renewal Genes in Adult Mouse Neural Stem Cells. *Journal of Iranian Anatomical Sciences*, Vol 5. No. 10 & 20, Summer & Autumn 2007, Pages: 81-92.
12. **Golmohammadi MG**, Azari H, Mardani M, Esfandiari E, Rietze RL, : A New and Efficient Method for More Neurosphere Growing from the Adult Mouse Brain Lateral Ventricle. *Journal of Ardabil University of Medical Sciences*, Vol 8, No 2, Summer 2008, pp 179-186.
13. Azari H, **Golmohammadi MG**, Esfandiari E, Mardani M, Reynolds BA: Comparison of Neural Stem Cells Neurogenesis by Using Flow Cytometry versus Manual Counting Method. *Journal of Isfahan Medical School*, Vol 25, No 86, Fall 2007, pp 9-18.
14. Bayat M, **Golmohammadi MG**, Rezaei F: Effects of Low Power Gallium Aluminum Arsenide Laser Irradiation on the Mast Cells of Skin Wounds in Rats. *Iranian Journal of Dermatology*, Vol 8, No. 6, winter 2006, pp 475- 481.
15. **Golmohammadi MG**, Rezazade M, Hosseini A, Bayat M: Changes of Cell Population and Biomechanical Property of Wound Bed In Open Skin Wound of Rats Under The Effect of Low Power (He-Ne) Laser Radiation. *Yakhte Medical Journal*, Vol 2, No 6, summer 2000, pp 105-109.

16. Bayat M, Hosseini A, **Golmohammadi MG**, Azari A: Effects of Low Power Laser (Ga-AL-Ar) On Open Skin Wound Healing Of Rats From Histological and Biomechanical Point Of Views. Yakhte Medical Journal, Vol 1, No 1, 1999, pp 27-32.

Books

1. Ebrahim Esfandiari, Roushanak Aboutorabi, Hassan Azari, **Mohammad Ghasem Golmohammadi**, Abbas Esmaeili, Omid Aghadavoudi, Kamran Monshei (2001). Transkation of Clinical Neuroanatomy for Medical Students, Richard S.Snell, 5th Edition.

2. Ebrahim Esfandiri, Mohamad Mardadi, Hassan Azari, **Mohammad Ghasem Golmohammadi (2003)**. Translation of The developing Human, clinically oriented embryology Moore Persaude, 7th Edition.

3. Sagha M, Chinifroush M, Shokouhi B, **Golmohammadi MG**. Fundamental of Histology. First ed. Iran,Tehran: Khosravi and Ardabil university of medical sciences; 2011.

4. **Golmohammadi MG**, Sagha M, Afsar M, Naeim M, Salehi S. Translation of “Anatomy at a Glance”; Third ed; 2020.