

**Samad Nadri, PhD**  
*Full Curriculum Vitae*



**Profession:** **Associate Professor**  
Medical Nanotechnology Department, Zanzan University of Medical  
Science

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**RESEARCH INTERESTS**

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I received my PhD degree in Medical Nanotechnology from Shahid Beheshti University of medical Science, Tehran, Iran. In my PhD studies, I focused on the retinal Tissue Engineering with nanostructure and Stem cell. I finished my PhD studies in June 2013.

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**EDUCATION**

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| 2013 | <b>Ph.D.</b> in Medical Nanotechnology, Tehran, Iran<br><b>Thesis topic:</b> Retinal Tissue Engineering                     |
| 2006 | <b>M.Sc.</b> in Biochemistry, Tehran, Iran.<br><b>Thesis topic:</b> Isolation Mesenchymal Stem cells from mouse bone marrow |
| 2000 | <b>B.Sc.</b> in Biology, Ahvaz, Iran.   |

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**PUBLICATIONS**

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- **Articles:**

- 1) NargesForouzideh a, **S Nadri** , AliFattahi c,d, Elaheh DalirAbdolahinia, MinaHabibizadeh g,KobraRostamizadeh , AlirezaBaradaran-Rafi j, HalehBakhshandeh Epigallocatechin gallate loaded electrospun silk fibroin scaffold with anti-angiogenic properties for corneal tissue engineering. *Journal of Drug Delivery Science and Technology*.2020. .( **Corresponding Author**)
- 2) Ali Rahmani , Mahmood Naderi , Ghasem Barati c, Ehsan Arefan , Behrouz Jedari c, Samad Nadri . The potency of hsa-miR-9-1 overexpression in photoreceptor differentiation of conjunctiva mesenchymal stem cells on a 3D nanofibrous scaffold. *Biochem Biophys Res Commun*.2020.( **Corresponding Author**)
- 3) Rahimi-Sherbaf F, **Nadri S**, Rahmani A, Dabiri Oskoei A. Placenta mesenchymal stem cells differentiation toward neuronal-like cells on nanofibrous scaffold. *Bioimpacts*. 2020;10(2):117-122. doi: 10.34172/bi.2020.14.
- 4) Jedari B, Rahmani A, Naderi M, **Nadri S**. MicroRNA-7 promotes neural differentiation of trabecular meshwork mesenchymal stem cell on nanofibrous scaffold. *J Cell Biochem*.2019 Nov 6. doi: 10.1002/jcb.29513. [Epub ahead of print] ✓ ( **Corresponding Author**)
- 5) Barati G, Rahmani A, **Nadri S**. In vitro differentiation of conjunctiva mesenchymal stem cells into insulin producing cells on natural and synthetic electrospun scaffolds.*Biologicals*. 2019 Oct 18. pii: S1045-1056(19)30110-1. doi: 10.1016/j.biologicals.2019.10.004. [Epub ahead of print] ( **Corresponding Author**)
- 6) Ranjbarnejad F, **Nadri S**, Biglari A, Mohammadi-Yeganeh S, Paryan M. Effect of let-7a overexpression on the differentiation of conjunctiva mesenchymal stem cells into photoreceptor-like cells. *Iran J Basic Med Sci*. 2019 Aug;22(8):878-883. ( **Corresponding Author**)
- 7) Mostafavi H, Ghassemifard L, Rostami A, Alipour M, Nadri S.Trabecular meshwork mesenchymal stem cell transplantation improve motor symptoms of parkinsonian rat model. *Biologicals*. 2019 Sep;61:61-67. ( **Corresponding Author**)
- 8) Abdolahinia ED, **Nadri S**, Rahbarghazi R, Barar J, Aghanejad A, Omid Y.Enhanced penetration and cytotoxicity of metformin and collagenase conjugated gold nanoparticles in breast cancer spheroids. *Life Sci*. 2019 Aug 15;231:116545. ( **Corresponding Author**)
- 9) Mirfazeli ES, Arefian E, **Nadri S**, Rezazadeh Valojerdi R, Kehtari M, Zeynali B. DKK1 expression is suppressed by miR-9 during induced dopaminergic differentiation of human trabecular meshwork mesenchymal stem cells. *Neurosci Lett*. 2019 Aug 10;707:134250. doi: 0.1016/j.neulet.2019.05.004. Epub 2019 Jun 4.
- 10) Islami M, Payandeh Z, Dalir Abdolahinia E, Saburi E, Soleimanifar F, Kehtari M, Mortazavi Y, **Nadri S**, Darvish M. Fucosylated umbilical cord blood hematopoietic stem cell expansion on selectin-coated scaffolds. *J Cell Physiol*. 2019 Dec;234(12):22593-22603. doi: 10.1002/jcp.28825. Epub 2019 May 17.
- 11) Bohlu E, Hasanlou F, Taramchi AH, **Nadri S**. TRAIL-expressing recombinant *Lactococcus lactis* induces apoptosis in human colon adenocarcinoma SW480 and HCT116 cells. *J Appl Microbiol*. 2019 May;126(5):1558-1567. doi: 10.1111/jam.14237. Epub 2019 Apr 1.

- 12) Nekouian S, Sojoodi M, **Nadri S**. Fabrication of conductive fibrous scaffold for photoreceptor differentiation of mesenchymal stem cell. *J Cell Physiol*. 2019 Feb 4. doi: 10.1002/jcp.28238. [Epub ahead of print] ( **Corresponding Author**)
- 13) Rahmani A, **Nadri S**, Kazemi SH, Mortazavi Y, Sojoodi M. Conductive electrospun scaffolds with electrical stimulation for neural differentiation of conjunctiva mesenchymal stem cells. *Artif Organs*. 2019 Jan 23. doi: 10.1111/aor.13425. [Epub ahead of print] ( **Corresponding Author**)
- 14) Barati G, **Nadri S**, Hajian R, Rahmani A, Mostafavi H, Mortazavi Y, Taromchi AH. Differentiation of microfluidic-encapsulated trabecular meshwork mesenchymal stem cells into insulin producing cells and their impact on diabetic rats. *J Cell Physiol*. 2019 May;234(5):6801-6809. doi: 10.1002/jcp.27426. Epub 2018 Oct 14. ( **Corresponding Author**)
- 15) Soleimanifar F, Mortazavi Y, **Nadri S**, Islami M, Vakilian S. Coculture of conjunctiva derived mesenchymal stem cells (CJMSCs) and corneal epithelial cells to reconstruct the corneal epithelium. *Biologicals*. 2018 Jul;54:39-43.
- 16) Enderami SE, Kehtari M, Abazari MF, Ghoraeian P, Nouri Aleagha M, Soleimanifar F, Soleimani M, Mortazavi Y, **Nadri S**, Mostafavi H, Askari H. Generation of insulin-producing cells from human induced pluripotent stem cells on PLLA/PVA nanofiber scaffold. *Artif Cells Nanomed Biotechnol*. 2018 Feb 27:1-8.
- 17) **Nadri S**, Barati G, Mostafavi H, Esmailzadeh A, Enderami SE. Differentiation of conjunctiva mesenchymal stem cells into secreting islet beta cells on plasma treated electrospun nanofibrous scaffold. *Artif Cells Nanomed Biotechnol*. 2017 Dec 14:1-10.
- 18) Enderami SE, Soleimani M, Mortazavi Y, **Nadri S**, Salimi A. Generation of insulin-producing cells from human adipose-derived mesenchymal stem cells on PVA scaffold by optimized differentiation protocol. *J Cell Physiol*. 2017 Nov 18. doi: 10.1002/jcp.26266. [Epub ahead of print]
- 19) Saburi E, Tavakolafshari J, Mortazavi Y, Biglari A, Mirzaei SA, **Nadri S**. shRNA-mediated downregulation of  $\alpha$ -N-Acetylgalactosaminidase inhibits migration and invasion of cancer cell lines. *Iran J Basic Med Sci*. 2017 Sep;20(9):1021-1028. doi: 10.22038/IJBMS.2017.9271.
- 20) Jamali S, Mostafavi H, Barati G, Eskandari M, **Nadri S**. Differentiation of mesenchymal stem cells -derived trabecular meshwork into dopaminergic neuron-like cells on nanofibrous scaffolds. *Biologicals*. 2017 Sep 20. ( **Corresponding Author**)
- 21) Nasehi F, Karshenas M, **Nadri S**, Barati G, Salim A. Core-shell fibrous scaffold as a vehicle for sustained release of retinal pigmented epithelium-derived factor (PEDF) for photoreceptor differentiation of conjunctiva mesenchymal stem cells. *J Biomed Mater Res A*. 2017 Aug 10. doi: 10.1002/jbm.a.36182. [Epub ahead of print] ( **Corresponding Author**)
- 22) Islami M, Mortazavi Y, Soleimani M, **Nadri S**. In vitro expansion of CD 133+ cells derived from umbilical cord blood in poly-L-lactic acid (PLLA) scaffold coated with fibronectin and collagen. *Artif Cells Nanomed Biotechnol*. 2017 Aug 6:1-9. doi: 10.1080/21691401.
- 23) Soleimannejad M, Ebrahimi-Barough S, Soleimani M, **Nadri S**, Tavangar SM, Roohipoor R, Yazdankhah M, Bayat N, Riazi-Esfahani M, Ai J. Fibrin gel as a scaffold for photoreceptor cells differentiation from conjunctiva mesenchymal stem cells in retina tissue

- engineering. *Artif Cells Nanomed Biotechnol.* 2017 Jul 10:1-10.  
doi:10.1080/21691401.2017.1345922. [Epub ahead of print]
- 24) Soleimanifar F, Mortazavi Y, **Nadri S**, Soleimani M. Conjunctiva derived mesenchymal stem cell (CJMSCs) as a potential platform for differentiation into corneal epithelial cells on bioengineered electrospun scaffolds. *J Biomed Mater Res A.* 2017 Oct;105(10):2703-2711. doi: 10.1002/jbm.a.36123. Epub 2017 Jun 21.
- 25) Soleimannejad M, Ebrahimi-Barough S, **Nadri S**, Riazi-Esfahani M, Soleimani M, Tavangar SM, Ai J. Retina tissue engineering by conjunctiva mesenchymal stem cells encapsulated in fibrin gel: Hypotheses on novel approach to retinal diseases treatment. *Med Hypotheses.* 2017 Apr;101:75-77. doi: 0.1016/j.mehy.2017.02.019.
- 26) Enderami SE, Mortazavi Y, Soleimani M, **Nadri S**, Biglari A, Mansour RN. Generation of Insulin-Producing Cells From Human-Induced Pluripotent Stem Cells Using a Stepwise Differentiation Protocol Optimized With Platelet-Rich Plasma. *J Cell Physiol.* 2017 Oct;232(10):2878-2886. doi: 10.1002/jcp.25721. Epub 2017 Apr 21.
- 27) **Nadri S**, Nasehi F, Barati G. Effect of parameters on the quality of core-shell fibrous scaffold for retinal differentiation of conjunctiva mesenchymal stem cells. *J Biomed Mater Res A.* 2016 Sep 12. doi: 10.1002/jbm.a.35897.
- 28) Kazemi SH, Ghodsi E, Abdollahi S, **Nadri S**. Porous graphene oxide nanostructure as an excellent scaffold for label-free electrochemical biosensor: Detection of cardiac troponin I. *Mater Sci Eng C Mater Biol Appl.* 2016 Dec 1;69:447-52. ( **Corresponding Author**)
- 29) Hesari Z, Soleimani M, Atyabi F, Sharifdini M, **Nadri S**, Ebrahimi Warkiani M, Dinarvand R. A **hybrid microfluidic system** for regulation of neural differentiation in induced pluripotent stem cells. *J Biomed Mater Res A.* 2016 Feb 23.
- 30) **Nadri S**, Yazdani S. Isolation and Expansion of Mesenchymal Stem Cells from Human Conjunctival Tissue. *Curr Protoc Stem Cell Biol.* 2015 May 1;33:1F.14.1-8.
- 31) Salimi A, **Nadri S**, Ghollasi M, Khajeh K, Soleimani M. Comparison of different protocols for neural differentiation of human induced pluripotent stem cells. *Mol Biol Rep.* 2014 Mar; 41(3):1713-21.
- 32) Massumi M, Hoveizi E, Baktash P, Hooti A, Ghazizadeh L, **Nadri S**, Pourasgari F, Hajarizadeh A, Soleimani M, Nabiuni M, Khorramizadeh MR. Efficient programming of human eye conjunctiva-derived induced pluripotent stem (ECiPS) cells into definitive endoderm-like cells. *Exp Cell Res.* 2014 Mar 10; 322(1):51-61.
- 33) **Samad Nadri**, Bahram Kazemi Mohamadreza Baghaban Eeslaminejad , Shahin Yazdani , Masoud Soleimani. High yield of cells committed to the photoreceptor-like cells from conjunctiva mesenchymal stem cells on nanofibrous scaffolds. *Molecular Biology reports J.* 2013 Jun;40(6):3883-90.

- 34) **Samad Nadri**, Shahin Yazdani, Ehsan Arefian , Zahra Gohari, Mohamadreza Baghaban Eslaminejad , Bahram Kazemi, Masoud Soleimani. Mesenchymal stem cells from trabecular meshwork become Photoreceptor-like cells on amniotic membrane. *Neuroscience Letters J.* 2013 Apr 29;541:43-8.
- 35) Hafizi M, Atashi A, Bakhshandeh B, Kabiri M, **Nadri S**, Hosseini RH, Soleimani M. MicroRNAs as Markers for Neurally Committed CD133+/CD34+ Stem Cells Derived from Human Umbilical Cord Blood. *Biochem Genet.* 2013 Apr;51(3-4):175-88.
- 36) Gheisari Y, Ahmadbeigi N, Naderi M, Nassiri SM, **Nadri S**, Soleimani M. Stem cell-conditioned medium does not protect against kidney failure. *Cell Biol Int.* 2011 Mar ;35(3):209-13.
- 37) Soleimani M, **Nadri S**, Shabani I. Neurogenic differentiation of human conjunctiva mesenchymal stem cells in nanofibrous scaffold. *Int J Dev Biol.* 2010;54(8-9):1295-300.
- 38) Eslaminejad MB, **Nadri S**. Murine mesenchymal stem cell isolated and expanded in low and high density culture system: surface antigen expression and osteogenic culture mineralization. *In Vitro Cell Dev Biol Anim.* 2009 Sep;45(8):451-9.
- 39) Atashi A, **Nadri S**, Hafizi M, Soleimani M. Role of poly-L-lysine-coated plates and fetal calf serum concentration in sheep chondroprogenitor cell culturing. *J Artif Organs.* 2009; 12(2):118-22. Epub 2009 Jun 18.
- 40) Soleimani M, **Nadri S**,.. A protocol for isolation and culture of mesenchymal stem cells from mouse bone marrow. *Nat Protoc.* 2009; 4(1):102-6.
- 41) **Nadri S**, Soleimani M, Mobarra Z, Amini S.Expression of dopamine-associated genes on conjunctiva stromal-derived human mesenchymal stem cells. *Biochem Biophys Res Commun.* 2008 Dec 12; 377(2):423-8.
- 42) Soleimani M, **Nadri s**, salehi M, Sobhani A, Hajarizadeh A. Characterization of fibroblast-like cells from the rat olfactory bulb.*Int. J. Dev. Biol.* 2008; 52(7):979-84.
- 43) **Nadri S**, Soleimani M, Kiani J, Atashi A, Izadpanah R.Multipotent mesenchymal stem cells from adult human eye conjunctiva stromal cells. *Differentiation.* 2008 Mar; 76(3):223-31.
- 44) **Nadri S**, Soleimani M, Hosseini RH, Massumi M, Atashi A, Izadpanah R.An efficient method for isolation of murine bone marrow mesenchymal stem cells. *Int J Dev Biol.* 2007;51(8):723-9.
- 45) **Nadri S**, Soleimani M.Comparative analysis of mesenchymal stromal cells from murine bone marrow and amniotic fluid. *Cytherapy.* 2007; 9(8):729-37.

- 46) **Nadri S**, Soleimani M. Isolation murine mesenchymal stem cells by positive selection. *In Vitro Cell Dev Biol Anim.* 2007 Sep-Oct; 43(8-9):276-82.
- 47) Eslaminejad MB, **Nadri S**, Hosseini RH. Expression of Thy 1.2 surface antigen increases significantly during the murine mesenchymal stem cells cultivation period. *Dev Growth Differ.* 2007 May;49(4):351-64.
- 48) Eslaminejad MB, Nikmahzar A, Taghiyar L, **Nadri S**, Massumi M. Murine mesenchymal stem cells isolated by low density primary culture system. *Dev Growth Differ.* 2006 Aug; 48(6):361-70.

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## PROFESSIONAL BACKGROUND

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- **Teaching Experiences:**

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|--------------|---|
| 2013-present | Nanobiotechnology, Nanomaterials, Nanomedicine, Tissue Engineering, Advanced Techniques in Biotechnology to MSc and PhD students, Zanzan University of Medical Sciences, Iran |
| 2000-2013    | Biology to High School students, Tehran, Iran   |

### **Awards, Honors & Recognitions**

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| 2010 | •The Best Researcher in Shahid beheshti University of Medical Sciences, Tehran, Iran |
| 2010 | • <b>The Winner of the 15th Razi Research festival on Medical Sciences in Iran</b>   |
| 2011 | • <b>The Winner of 15th the Best PhD Student in Iran</b>                             |
| 2018 | • The Best Researcher in Zanzan Province, Zanzan, Iran                               |

### **Professional Membership**

- The Members of Iran's National Elites

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## VARIOUS COMPETENCIES

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- **Languages:**

Persian (native), English (fluent), Arabic (basic)

- **Laboratory Skills:**

- **RT-PCR**
- **ICC**
- **Flow Cytometry**
- **Stem Cell culture**
- **Stem Cell isolation**
- **Stem cell Differentiation**
- **Real Time PCR (qPCR)**
- **Biosensor**
- **Fabricated Nanofibrous scaffold**
- **Lab on Chip and organoid System**
- **Microfluidic Systems**

### **.Interests**

- **Tissue Engineering**
- **Microfluidic Systems for Lab on Chip applications**
- **Treatment of diseases by stem cells**
- **Fabrication of nanofibrous scaffold**
- **Stem Cell Transplantation**
- **Isolation Stem cells from verity human and animal tissue**
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