



In the name of God

Curriculum Vitae

Personal Information

First name: Saeed

Last name: Heidari keshel

Gender: male

Marital status: Married (۲ children)

Date of birth: ۲۹ July ۱۹۸۱

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Department of Tissue Engineering and Cell Sciences, School of Advanced Technologies in Medicine, Taleghani Hospital, Velenjak, Shahid Chamran Freeway, Tehran, Iran.

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EDUCATION/TRAINING

Postdoctoral: Eye Proteomics, Tehran University of Medical sciences, Tehran, IRAN.

Ph.D. Degree: Applied Proteomics

Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran.

Ph.D. Thesis: [Proteome analysis of endometrial stem cell in healthy and endometriosis in order to introduce diagnostic biomarkers.](#)

MSc. Degree: Biology, Cell and Molecular Science. Imam Hussein University Sciences. Tehran, Iran.

MSC Thesis: [Evaluation of unrestricted somatic stem cells as a feeder layer to support undifferentiated embryonic stem cells](#)

BSc. Degree: Cell and Molecular Biology,

Imam Hussein University Sciences. Tehran, Iran.

LABORATORY SKILLS

- Autologous Corneal cell Therapy by Limbal stem cell ex-vivo culture (Clinical Grade).
- Adipose derived Stem cell Therapy for Skin and Corneal injury (Clinical Grade).
- Primary cell culture, Stem cell culture, Flowcytometry, Clean room working.
- Immunohistochemistry, Immunocytochemistry.
- Flowcytometry, FACS, MACS
- Molecular Biology Techniques; 2D Dimetional gel Electrophoresis, TMT labeling, cell/tissue proteome extraction, karyotyping, Western blotting, MTT/XTT/WSD assay.

PATENT

Method of co-culturing human endometrial stem cells and rat embryonic tooth bud cells to obtain Ameloblast cells. US 2014/037010 A1

- 2009 kaolin powder as coagulant of severe bleeding (Iranian patent N: 61 181)
- 2010 Design of temperature-sensitive smart hydrogel PNIPAAm / chitosan use of cell sheets (Iranian patent N: 61 179)
- 2012 Full reconstruction of the skin of Rat with Nanofibre PHBV scaffold design (Iranian patent N: 75264)
- 2013 Differentiation of Endometrial stem cell to Ameloblast cell (Iranian patent N: 76816)

WORK EXPERIENCES

Stem cell Biology Department, Proteomics research center [۲۰۰۹-۱۶]

- Developing scaffolds for Skin, Nerve and Cornea.
- Investigating of the stem cell proteomics.
- Differentiating of stem cells into corneal epithelial cells, keratinocyte, ameloblastin, heart muscle, osteoblast, and hepatocyte.

Comprehensive Center of Excellence in Ophthalmology, Stem cell Preparation Unit, Farabi Eye Hospital. [۲۰۰۹ - ۲۰۱۸];

- Cell therapy in cornea (Autologous Limbal stem cell and ADSCs)
- Screening of patients by proteomics theologies (Dry eye, Glaucoma)
- Stem cell and regenerative medicine research for eye related diseases
- Clean room working experience.

Member of Iranian clinical proteomics society.

Member of executive committee in the student's congress of Biology and Biotechnology.

RESEARCH INTERESTS

Tissue engineering, Cell therapy, Stem cell biology, Regenerative medicine, Tear Proteomics, 3D cell culture systems. exosom technology, System biology.

PUBLICATIONS

۲۰۱۸

Sheyda Akhshabi, Esmail Biazar, Vivek Singh, **Saeed Heidari Keshel**, Nagaraja Geetha: *The effect of the carbodiimide cross-linker on the structural and biocompatibility properties of collagen-chondroitin sulfate electrospun mat.* International Journal of Nanomedicine ۰۷/۲۰۱۸; Volume ۱۳: ۴۴۰۰-۴۴۱۶., DOI: ۱۰.۲۱۴۷/IJN.S16۰۷۳۹

Saeed heidari keshel: *Electro-spun Polyethylene Terephthalate (PET) Mat as a Keratoprosthesis Skirt and Its Cellular Study.* Fibers and Polymers ۰۶/۲۰۱۸; ۸(۱۸).

Shima Dehghani, Morteza Rasoulianboroujeni, Hamed Ghasemi, **Saeed Heidari Keshel**, Zohreh Nozarian, Mohammad Naser Hashemian, Mehran Zarei-Ghanavati, Golshan Latifi, Reza Ghaffari, Zhanfeng Cui, Hua Ye, Lobat Tayebi: *3D-Printed membrane as an alternative to amniotic membrane for ocular surface/conjunctival defect reconstruction: An in vitro & in vivo study.* Biomaterials ۰۹/۲۰۱۸; ۱۷۴., DOI: ۱۰.۱۰۱۶/j.biomaterials.۲۰۱۸.۰۵.۰۱۳

Esmail Biazar, Masoumeh Najafi S., **Saeed Heidari K.**, Meysam Yazdankhah, Ataollah Rafiei, Dariush Biazar: *3D bio-printing technology for body tissues and organs regeneration.* Journal of Medical Engineering & Technology ۰۴/۲۰۱۸; ۴۲(۳): ۱-۱۶., DOI: ۱۰.۱۰۸۰/۰۳۰۹۱۹۰۲, ۲۰۱۸, ۱۴۵۷۰۹۴

Ahad Khoshzaban, Peyman Keyhanvar, Elham Delrish, Farhood Najafi, **Saeed Heidari Keshel**, Ikuya Watanabe, Alireza Valanezhad, Tahereh Jafarzadeh Kashi: *Alginate Microcapsules as Nutrient Suppliers: An In Vitro Study.* Cell Journal ۰۴/۲۰۱۸; ۲۰(۱): ۲۵-۳۰., DOI: ۱۰.۲۲۰۷۴/cellj.۲۰۱۸.۴۵۰۸

Maryam Ebrahimi, Jafar Ai, Esmail Biazar, Somayeh Ebrahimi-Barough, Arash Khojasteh, Meysam Yazdankhah, Siavash Sharifi, Arman Ai, **Saeed Heidari-Keshel**: *In vivo assessment of a nanofibrous*

silk tube as nerve guide for sciatic nerve regeneration. Artificial Cells ۰۱/۲۰۱۸;;
DOI:۱۰,۱۰۸۰/۲۱۶۹۱۴۰۱,۲۰۱۸,۱۴۲۶۰۹۳

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Sheyda Akhshabi, Esmaeil Biazar, Vivek Singh, **Saeed Heidari Keshel**, Geetha Nagaraja: The effect of glutaraldehyde cross-linker on structural and biocompatibility properties of collagen-chondroitin sulfate electrospun mat. Materials Technology ۱۲/۲۰۱۷;; DOI:۱۰,۱۰۸۰/۱۰۶۶۷۸۰۷,۲۰۱۷,۱۴۱۰۹۹۸

Ebrahim Shirzadeh, **Saeed Heidari keshel**, Vahid Ezzatizadeh, Sayena Jabbehdari, Alireza Baradaran-Rafii: Unrestricted Somatic Stem Cells, as a Novel Feeder Layer: Ex Vivo Culture of Human Limbal Stem Cells. Journal of Cellular Biochemistry ۱۰/۲۰۱۷;; DOI:۱۰,۱۰۰۲/jcb.۲۶۴۳۴

Masoumeh Mohebbi, Amin Rafat-nejad, Seyed-farzad Mohammadi, Kosar Asna-ashari, Maryam Kasiri, **Saeed Heidari-keshel**, Farshad Askarizadeh: Post-photorefractive Keratectomy Pain and Corneal Sub-basal Nerve Density. Journal of Ophthalmic & Vision Research ۰۹/۲۰۱۷; ۱۲(۲):۱۰۱-۱۰۵.,
DOI:۱۰,۴۱۰۳/jovr.jovr_۱۰۰_۱۶

Maryam Ebrahimi, Jafar Ai, Esmaeil Biazar, Reza Faridi-Majidi, Jamshid Hajati, Somayeh Ebrahimi-Barough, **Saeed Heidari K**: Investigation of properties of chemically cross-linked silk nanofibrous mat as a nerve guide. Materials Technology ۰۴/۲۰۱۷; ۳۲(۹):۱-۹.,
DOI:۱۰,۱۰۸۰/۱۰۶۶۷۸۰۷,۲۰۱۷,۱۳۱۷۰۶۰

Vahid Rakhshand, Farhood Najafic, Leila Aghajanpourob, **Saeed Heidari Keshel**, Ikuya Watanabee, Alireza Valanezhade: Effect of sintering temperature rise from ۸۷۰ to ۹۲۰ °C on physicochemical and biological quality of nano-hydroxyapatite: An explorative multi-phase experimental in vitro/vivo study. Materials Science and Engineering C ۰۴/۲۰۱۷; ۷۷:۱۴۲-۱۵۰.,
DOI:۱۰,۱۰۱۶/j.msec.۲۰۱۷,۰۳,۱۸۳

Momenzadeh D, Baradaran-Rafii A, **Keshel SH**, Ebrahimi M, Biazar E. Electrospun mat with eyelid fat-derived stem cells as a scaffold for ocular epithelial regeneration. Artificial cells, nanomedicine, and biotechnology. ۲۰۱۷;۴۵(۱):۱۲۰-۷.

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Saeed Heidari-Keshel, Mehrnaz Ahmadian, Esmaeil Biazar, Akbar Gazmeh, Masoumeh Rabiei, Mobina Adibi, Amin Soufi M, Mohammad Shabani: *Surface modification of Poly Hydroxybutyrate (PHB) nanofibrous mat by collagen protein and its cellular study*. Materials Technology ۱۱/۲۰۱۶; ۳۱(۱۳):۷۹۹-۸۰۵., DOI:۱۰,۱۰۸۰/۱۰۶۶۷۸۰۷,۲۰۱۶,۱۲۵۸۰۱۷

Saeed Heidari K, Esmaeil Biazar, S. Meysam Seyedbarzegar, Nayerehsadat Mousavi, Fina Vosoughi, Naghmeh Khademi S, Fariba Nami, Hesam Hosseinkazemi: *Simple design of an aligned transparent biofilm by magnetic particles and its cellular study: Simple Design of an Aligned Transparent Biofilm*. Polymers for Advanced Technologies ۱۱/۲۰۱۶;; DOI:۱۰,۱۰۰۲/pat.۳۹۸۲

Saeed heidari keshel: *Purification and identification of CD۱۴۶ positive endometrial somatic stem cell from human normal endometrium biopsy and gene expression criteria*. Minerva Biotechnologica ۰۸/۲۰۱۶; ۲۸(۴):۲۰۸-۲۱۸.

Hoda Bahrami, Reza Roozafzoon, Zinat Ghanbari, Neda Jegargooshe, Parvaneh Jafari, Mohammad Nazari, **Saeed Heidari-Keshel**: *The evaluation of alteration of ELAM-1 expression in the endometriosis patients.* ۰۷/۲۰۱۶; DOI: ۱۰.۲۳۷۳۶/S.۰۲۶-۴۷۸۴,۱۶,۰۳۷۶۲-X

Esmail Biazar, Daruosh Momenzadeh, **Saeed Heidari Keshel**, Fatemeh Yousefi, Mehrnoosh Shabani, Fatemeh Sefidabi, Mahkameh Sheikholeslami: *Solvent effect in phase separation for fabrication of micropatterned porous scaffold sheets.* International Journal of Polymeric Materials ۰۵/۲۰۱۶; ۶۵(۷):۳۵۱-۳۵۷, DOI: ۱۰.۱۰۸۰/۰۰۹۱۴۰۳۷,۲۰۱۵,۱۱۱۹۶۹۱

Alireza Baradaran-Rafii, Esmail Biazar, **Saeed Heidari-Keshel**: *Cellular Response of Limbal Stem Cells on Polycaprolactone Nanofibrous Scaffolds for Ocular Epithelial Regeneration.* Current eye research ۰۴/۲۰۱۶; ۴۱(۳):۳۲۶-۳۳۳, DOI: ۱۰.۳۱۰۹/۰۲۷۱۳۶۸۳,۲۰۱۵,۱۰۱۹۰۰۴

Esmail Biazar, **Saeed heidari keshel**: *Design of Polycaprolactone Nanofibrous Scaffold as Suitable Substrate for Limbal Stem Cells for Corneal Epithelial Regeneration.*

Daruosh Momenzadeh, Alireza Baradaran-Rafii, **Saeed Heidari Keshel**, Maryam Ebrahimi, Esmail Biazar: *Electrospun mat with eyelid fat-derived stem cells as a scaffold for ocular epithelial regeneration.* Artificial Cells ۰۷/۲۰۱۶; ۴۵(۱):۱-۸, DOI: ۱۰.۳۱۰۹/۲۱۶۹۱۴۰۱,۲۰۱۶,۱۱۳۸۴۸۳

Hasan Tahermansouri, Atieh Mirosanloo, **Saeed Heidari Keshel**, Mossa Gardaneh: *Synthesis, characterization, and toxicity of multi-walled carbon nanotubes functionalized with ۴-hydroxyquinazoline.* Carbon letters ۰۱/۲۰۱۶; ۱۷(۱):۴۵-۵۲, DOI: ۱۰.۵۷۱۴/CL.۲۰۱۶,۱۷,۱,۰۴۵

Raziye Mahmoudzadeh, **Saeed Heidari-Keshel**, Alireza Lashay: *Hypothesis Medical Hypothesis, Discovery & Innovation Schwann Cell-Mediated Preservation of Vision in Retinal Degenerative Diseases via the Reduction of Oxidative Stress: A Possible Mechanism Correspondence to . Med Hypothesis Discov Innov Ophthalmol.* ۲۰۱۶ Summer; ۵(۲): ۴۷-۵۲.

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Saeed Heidari Keshel, Maryam Rostampour, Golbahar Khosropour, Atef Sadat Bandbon B, Alireza Baradaran-Rafii, Esmail Biazar: *Derivation of Epithelial-like Cells from Eyelid Fat Derived Stem Cells in Thermosensitive Hydrogel.* Journal of Biomaterials Science Polymer Edition ۱۲/۲۰۱۵; ۲۷(۴):۱-۲۶, DOI: ۱۰.۱۰۸۰/۰۹۲۰۵۰۶۳,۲۰۱۵,۱۱۳۰۴۰۶

ALIREZA BARADARAN-RAFII, ESMAIL BIAZAR, **SAEED HEIDARI-KESHEL**: *Cellular Response of Limbal Stem Cells on PHBV/Gelatin Nanofibrous Scaffold for Ocular Epithelial Regeneration.* International Journal of Polymeric Materials ۱۲/۲۰۱۵; ۶۴(۱۷):۸۷۹-۸۸۷, DOI: ۱۰.۱۰۸۰/۰۰۹۱۴۰۳۷,۲۰۱۵,۱۰۳۰۶۵۸

Alireza Baradaran-Rafii, Esmail Biazar, **Saeed Heidari-Keshel**: *Cellular Response of Limbal Stem Cells on Poly (Hydroxybutyrate-co-Hydroxyvalerate) Porous Scaffolds for Ocular Surface Bioengineering.* Post Communist Economies ۱۱/۲۰۱۵; ۶۴(۱۵), DOI: ۱۰.۱۰۸۰/۰۰۹۱۴۰۳۷,۲۰۱۵,۱۰۳۰۶۵۱

Esmail Biazar, Alireza Baradaran-Rafii, **Saeed Heidari-Keshel**, Sara Tavakolifard: *Oriented nanofibrous silk as a natural scaffold for ocular epithelial regeneration.* Journal of Biomaterials Science Polymer Edition ۰۹/۲۰۱۵; ۲۶(۱۶):۱-۱۳, DOI: ۱۰.۱۰۸۰/۰۹۲۰۵۰۶۳,۲۰۱۵,۱۰۷۸۹۳

Hoda Bahrami, **Saeed Heidari Keshel**, Aliakbar Jafari Chari, Esmail Biazar: *Human unrestricted somatic stem cells loaded in nanofibrous PCL scaffold and their healing effect on skin defects.* Artificial Cells ۰۷/۲۰۱۵; ۴۴(۶):۱-۵, DOI: ۱۰.۳۱۰۹/۲۱۶۹۱۴۰۱,۲۰۱۵,۱۰۶۲۳۹

Alireza Baradaran-Rafii, Esmail Biazar, **Saeed Heidari-Keshel**: *Cellular Response of Stem Cells on Nanofibrous Scaffold for Ocular Surface Bioengineering*. ASAIO Journal ۰۵/۲۰۱۵; ۶۱(۵):۱., DOI: ۱۰.۱۰۹۷/MAT.....۲۴۲

Christopher Morton Thomas, Azadeh Rahmani-Badi, Shayesteh Sepehr, Hossein Fallahi, **Saeed Heidari-Keshel**: *Dissection of the cis- γ -decanoic acid signaling network in Pseudomonas aeruginosa using microarray technique*. Frontiers in Microbiology ۰۵/۲۰۱۵; ۶., DOI: ۱۰.۳۳۸۹/fmicb.۲۰۱۵.۰۰۳۸۳

Alireza Baradaran-Rafii, Esmail Biazar, **Saeed Heidari-Keshel**: *International Journal of Polymeric Materials and Polymeric Biomaterials Cellular Response of Limbal Stem Cells on Poly (Hydroxybutyrate-co-Hydroxyvalerate) Porous Scaffolds for Ocular Surface Bioengineering*. International Journal of Polymeric Materials ۰۴/۲۰۱۵; ۶۴(۱۵):۸۱۵.

Esmail Biazar, **Saeed Heidari Keshel**: *Electrospun Poly hydroxybutyrate-co-hydroxyvalerate (PHBV)/ Hydroxyapatite Scaffold with Unrestricted Somatic Stem Cells (USSCs) for Bone Regeneration*. ASAIO journal (American Society for Artificial Internal Organs: ۱۹۹۲) ۰۲/۲۰۱۵; ۶۱(۳)., DOI: ۱۰.۱۰۹۷/MAT.....۲۰۵

Esmail Biazar, **Saeed Heidari Keshel**, Mostafa Rezaei Tavirani, Rahim Jahandideh: *Bone reconstruction in rat calvarial defects by chitosan/hydroxyapatite nanoparticles scaffold loaded with unrestricted somatic stem cells*. Artificial Cells Blood Substitutes and Biotechnology (formerly known as Artificial Cells Blood Substitutes and Immobilization Bi ۰۱/۲۰۱۵; ۴۳(۲):۱۱۲-۶., DOI: ۱۰.۳۱۰۹/۲۱۶۹۱۴۰۱.۲۰۱۳.۸۴۸۸۷۴

Esmail Biazar, Davood Zaeifi, **Saeed Heidari Keshel**, Sanaz Ojani, Arefeh Hajiaghaee, Roya Safarpour, Mahkameh Sheikholeslami, Banafsheh Heidari, Saba Sadeghpour: *Design of Electrospun Poly vinyl alcohol/Chitosan Scaffold and Its Cellular Study*.

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Reza Roozafzoon, Alireza Lashay, Mohammad Vasei, Jafar Ai, Ahad Khoshzaban, **Saeed Heydari Keshel**, Zahra Barabadi, Hoda Bahrami: *Dental Pulp Stem Cells Differentiation into Retinal Ganglion-Like Cells in a Three Dimensional Network..* Biochemical and Biophysical Research Communications ۱۲/۲۰۱۴;, DOI: ۱۰.۱۰۱۶/j.bbrc.۲۰۱۴.۱۲.۰۶۹

Saeed heidari keshel: *Influence of functionalised multiwalled carbon nanotubes with imidazole derivative and thiosemicarbazide on MKN۴۵ and SW۶۳۷ cancer cells*. Materials Technology ۱۲/۲۰۱۴;, DOI: ۱۰.۱۱۷۹/۱۷۵۳۵۵۵۷۱۴۷.....۲۵۱

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Saeed heidari keshel, E. Biazar: *Unrestricted Somatic Stem Cells Loaded in Nanofibrous Scaffolds as Potential Candidate for Skin Regeneration*. International Journal of Polymeric Materials ۰۵/۲۰۱۴; ۶۳(۱۴):۷۴۱-۷۵۲., DOI:۱۰,۱۰۸۰/۰۰۹۱۴۰۳۷,۲۰۱۳,۸۷۹۴۴۷

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Saeed Heidari Keshel, Esmaeil Biazar, Ali Sahebalzamani, Mehran Hamidi, Maryam Ebrahimi: *The Healing Effect of Unrestricted Somatic Stem Cells Loaded in Nanofibrous Poly Hydroxybutyrate-Co-Hydroxyvalerate Scaffold on Full-Thickness Skin Defects*. Journal of Biomaterials and Tissue Engineering ۰۱/۲۰۱۴; ۴(۱):۲۰-۲۷., DOI:۱۰,۱۱۶۶/jbt.۲۰۱۴,۱۱۳۷

Reza Zeinali, Esmaeil Biazar, Saeed Heidari Keshel, Mostafa Rezaei Tavirani, Kamal Asadipour: *Regeneration of Full-Thickness Skin Defects Using Umbilical Cord Blood Stem Cells Loaded into Modified Porous Scaffolds*. ASAIO journal (American Society for Artificial Internal Organs: ۱۹۹۲) ۱۲/۲۰۱۳; ۶۰(۱)., DOI:۱۰,۱۰۹۷/MAT.....۲۵

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Farzaneh Khademi, Javad Verdi, Masoud Soleimani, Reza Roozafzoon, Saeed Heidari Keshel, Reza Raeisossadati, Jafar Ai: *Human endometrial adult stem cells can be differentiated into hepatocyte cells*. Iranian Journal of Medical Hypotheses and Ideas ۰۱/۲۰۱۳; ۸(۱)., DOI:۱۰,۱۰۱۶/j.jmhi.۲۰۱۳,۰۷,۰۰۴

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ATTENDED CONFERENCES

- ۲۶rd Farabi Annual Meeting, Ophthalmology Updates and Translational Ophthalmology, ۲۰۱۷ Tehran, Iran.
- ۲۵rd Farabi Annual Meeting, Ophthalmology Updates and Translational Ophthalmology, ۲۰۱۷ Tehran, Iran.
- ۲۴rd Farabi Annual Meeting, Ophthalmology Updates and Translational Ophthalmology, ۲۰۱۷ Tehran, Iran.
- IRAVO annual meeting ۲۰۱۶, Tehran, IRAN.
- IRAVO annual meeting ۲۰۱۵, Tehran, IRAN.
- ۲۳rd Farabi Annual Meeting, Ophthalmology Updates and Translational Ophthalmology, ۲۰۱۷ Tehran, Iran.
- ۲۰th Farabi Hospital Annual Meeting, the vitreous and retina and regenerative medicine, ۲۰۱۴ Tehran, Iran.
- ۱۹th Farabi Hospital Annual Meeting, the anterior segment, ۲۰۱۳ Tehran, Iran.

HOBBIES

Running, Gardening, Gym exercise