

# *CURRICULUM VITAE*

## **Hossein Ghanbarian**

Current Position: Associate Professor  
Biotechnology Department, School of Advanced Technologies in Medicine  
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### **Language:**

English (Full professional proficiency), France (Professional working proficiency), Azerbaijani (Native or bilingual proficiency), Persian (Native or bilingual proficiency)

### **WORK EXPERIENCE**

#### **Shahid Beheshti University of Medical Sciences, Tehran, Iran**

- Mar. 2018 – present      **Associate Professor**, Group leader, Biotechnology Department
- Mentoring and supervising Ph.D. students (number = 4)
  - Establish and directing iPSC laboratory, School of Advanced Technologies in Medicine
  - Devise and optimizing protocols for iPSC research
  - University teaching responsibilities: course design and seminars in stem cells and cell reprogramming, RNA biology, RNA-based therapeutics, and epigenetic for PhD students

#### **Shahid Beheshti University of Medical Sciences, Tehran, Iran**

- 2011 – 2017              **Assistant Professor**, Group leader, Biotechnology Department
- Conducted research on RNA-mediated cell reprogramming
  - Conducted research on RNA-mediated stem cell differentiation
  - Conducted research on RNA therapeutics in cancer and RNA-mediated epigenetic modifications
  - Mentored and supervised more than 10 Ph.D. and M.Sc. students
  - Established the stem cell research laboratory, Biotechnology department
  - Devised and optimized protocols for cellular and molecular biology research, Biotechnology department
  - University teaching responsibilities: course design and seminars in stem cells and cell reprogramming, RNA biology, RNA-based therapeutics, and epigenetic for PhD students

#### **The University of Nice Sophia Antipolis**, Nice, France

- 2010 – 2011              **Postdoctoral Fellow**, Genetic and Development Department, INSERM U1091
- Developed a new RNA microinjection method
  - Developed a method for embryonic stem cell cardiac differentiation
  - Studied on RNA-directed epigenetic controls in pluripotent stem cells.
  - Mentor: Prof. Minoou Rassoulzadegan, Director of INSERM U1091
  - Trained and supervised Ph.D. students

**Tabriz University of Medical Sciences, Tabriz, Iran**

- 2004 – 2006                      **Research Assistant**, Drug applied research center
- Conducted research on therapeutic recombinant protein expression
  - Devised and optimized protocols for molecular biology research
  - Trained and supervised trainees in their research projects
  - Trained faculty members in molecular biology protocols
  - Managed the laboratory (observing safety regulations, maintenance of the equipment in GLP compliance)
  - Supervised technicians

**Omid University Hospital, Tehran, Iran**

- 1999 – 2002                      Medical Laboratory Technologist, Head of the night shift
- Conducted routine and specialized medical diagnostic tests
  - Supervised technicians

**EDUCATION**

- 2006 – 2010                      Doctor of Philosophy in Molecular Cell Biology  
Nice Sophia Antipolis University, Nice, France  
Thesis title: RNA-directed epigenetic controls from Mice to ES cells:  
induction of cardiac hypertrophy  
Mentors: Prof. Minoo Rassoulzadegan, Director of INSERM U1091
- 2000 – 2003                      Master of Science in Medical Biotechnology  
Department of Medical Biotechnology  
Tarbiat Modarres University, Tehran, Iran  
GPA: 17.96 out of 20  
Thesis title: The Expression of Human Granulocyte Macrophage Colony  
Stimulating Factor by Heat-Induction in Escherichia coli  
Mentor: Dr. Alireza Zomorodipour
- 1997 – 1999                      Bachelor of Science in Medical Laboratory Technology  
Iran University of Medical Sciences, Tehran, Iran  
GPA: 17.29 out of 20
- 1994 – 1996                      Associate Diploma in Medical Laboratory Technology  
Ardabil University of Medical Sciences, Ardabil, Iran

**AWARDS, HONORS AND SCHOLARSHIPS**

1. **Top Entrepreneur** among more than 1000 faculty members at Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2018
2. **Iranian Top Researcher**, Royan Award as a National Winner in the field of Stem Cell Biology and Technology for the research on " RNA Directed Programming of Embryonic Stem Cell", 2017

3. INSERM U1091/SNRS U7277 Postdoctoral Fellowship, Nice, France, 2010 – 2011
4. Iranian Ministry of Health and Medical Education Fellowship for Ph.D. Program in ISERM U1091, Nice, France (1500 EUR per month), 2006-2010
5. Campus France Training Scholarship for one month, INSERM U1091/SNRS U7277, Nice, France, 2014

## **TECHNICAL SKILLS**

### **Molecular/cellular biology**

DNA/RNA extraction, PCR/qPCR/RT-PCR, PCR-RFLP, DNA construct design and cloning, recombinant protein expression, Western/ Northern/ Southern blotting, nuclear Run-on assay, Chromatin immunoprecipitation (CHIP) assay, RNA/DNA microinjection in Fertilized Eggs, RNA preparation from epididymal sperm, DNA/RNA methylation detection, Mammalian cell culture, Embryonic Stem Cell (ESC) culture/ differentiation/ characterization, ES cell injection of blastocyst, Induced Pluripotent Stem Cell (iPSC) production/culture/characterization, stable and transient transfection of mammalian cells, cell electroporation, cell transduction, Lentiviral vector production and transfection

### **Immunology**

ELISA, cell proliferation assays (thymidine incorporation, BrdU, MTT), invasion/migration assay Exosome isolation, Isolation/cultivation, and characterization of human mesenchymal stem cells, immunohistochemistry (IHC), IHC imaging, immunocytochemistry (ICC)

### **Animal handling and treatment**

Proficient in mouse handling, injections, bleeding, euthanasia and surgery, isolation and microinjection of fertilized embryo (zygotes), isolation and microinjection of blastocyst, embryo transfer in mice, transgenic mouse production by zygote injection, chimeric mouse production by microinjection

## **CONTRIBUTION IN RESEARCH PROJECTS**

### **I) Principal Investigator and Grant Holder**

1. “RNA- directed programming of mesenchymal stem cells cartilage differentiation”, Submitted for funding, Shahid Beheshti University of Medical Sciences, 2018. Note: collaborating with Dr. Kay-Dietrich Wagner's lab., Group leader INSERM, Faculty of Medicine, Nice Sophia Antipolis University, Nice, France
2. “Short non coding RNA-mediated SIRT1 induction to attenuate mesenchymal stem cells senescence”, Supported by Iran National Science Foundation (INSF), 2018
3. “Efficient lentiviral transduction of human adipose- derived mesenchymal stem cells”, Supported by Shahid Beheshti University of Medical Sciences, 2018
4. “RNA-mediated heredity of type 2 diabetes and inhibition of trans-generational inheritance of diabetes in mice”, Supported by Iranian National Institute for Medical Research Development (NIMAD), 2017
5. “High-efficient induction of pluripotent stem cells from human fibroblasts using microfluidic devices ”, Supported by Iranian Council for Stem cell Science and Technologies, 2016

6. “Investigation of *Cdk9* locus specific induction on *in vivo* and *in vitro* mouse embryonic stem cells differentiation into cardiomyocytes”, Supported by Shahid Beheshti University of Medical Sciences, 2015. Note: collaborated with Prof. Minoo Rassoulzadegan's lab., INSERM U1091, Nice Sophia Antipolis University, Nice, France
7. “*In vivo* and *in vitro* evaluating of exosomes and microvesicles derived from miR-10a and miR-29b overexpressing mesenchymal stem cells on differentiation of naïve CD4+ T cells”, Supported by Iranian Council for Stem cell Science and Technologies, 2015
8. “*Rn7SK*-mediated embryonic stem cell neural differentiation”, Supported by Shahid Beheshti University of Medical Sciences, 2014
9. “Skin substitute scaffold designing using amnion membrane and silk fibroin for repairing of third degree burn in animal model”, Supported by Shahid Beheshti University of Medical Sciences, 2013
10. “Blood cancer animal model production with microRNA-92a injection into mouse zygote”, Supported by Iran National Science Foundation (INSF), 2012. Note: collaborated with Prof. Minoo Rassoulzadegan's lab., INSERM U1091, Nice Sophia Antipolis University, Nice, France
11. “Growth inhibitory effects of *7SK* non-coding RNA on human cancer cell lines”, Supported by Shahid Beheshti University of Medical Sciences, 2011

## II) Supervisor of Graduate Student Projects (2011- present)

12. “Short non coding RNA- mediated locus specific *SOX9* gene activation: induction of mesenchymal stem cell cartilage differentiation”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **2015- present**, (Student: Mohamad Eftekhari)
13. “Investigation of *7SK* non-coding RNA regulatory roles on attenuation of mesenchymal stem cells senescence”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **2016- present**, (Student: Maryam musavi)
14. “Short non coding RNAs- mediated *SIRT1* induction to attenuate mesenchymal stem cells senescence”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **2016- present**, (Student: Neda Mokhberian)
15. “Design and construction of a bioactive nano-composite hydrogel scaffold as a three-dimensional medium to optimize the differentiation of mesenchymal stem cells to bone-like cells”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **2016- present**, (Student: Maryam Khorramghah)
16. “*In vitro* evaluating of exosomes and microvesicles derived from miR-10a and miR-29b overexpressing mesenchymal stem cells on differentiation of naïve CD4+ T cells”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2018 (Student: Zohreh Bolandi)
17. “Direct regulatory roles of *Cdk9* on myocardial differentiation by modulation of cardiac microRNAs”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014- 2017, (Student: Vahideh Tarhriz)
18. “*Rn7SK*-mediated embryonic stem cell neural differentiation”, Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014- 2017, (Student: Zahra Bazi)

19. "Identification of ncRNAs regulated by KSRP in endothelial-mesenchymal transition", Molecular Medicine P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014- 2017, (Student: Arfa Moshiri)
20. "Skin substitute scaffold designing using amnion membrane and silk fibroin for repairing of third degree burn in animal model", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2012- 2016, (Student: Mazaher Gholipour)
21. "Electrochemical based biosensor for detection of mir-106a in gastric cancer patients using magnetic nanoparticles as labels", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2012- 2016, (Student: Maryam Daneshpour)

## **II) Advisor of Graduate Student Projects (2011- present)**

1. "microRNA- mediated apoptosis induction in Leishmania major-infected macrophages", Medical Parasitology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016- Present
2. "Topographical and surface properties of scaffolds with clay nanoparticles on bone differentiation", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016- Present
3. "Design and construction of a bioactive nano-composite hydrogel scaffold as a three-dimensional medium to optimize the differentiation of mesenchymal stem cells to bone-like cells", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016- Present
4. "Evaluation of the antitumor effect of dendritic cells modified with texosome (miRNA-155) in BALB/c mice with colorectal cancer induced by CT-26 cell lines", Medical Immunology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015- Present
5. "Designing of amnion membrane covered with beeswax as a skin substitute for prevention of hypertrophic scar in rabbit ear model", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015- Present
6. "miRNA- mediated mesenchymal stem cell osteoblast differentiation", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015- Present
7. "microRNA-mediated Induced Pluripotent Stem Cell (IPSC) Chondrocyte differentiation", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014- 2017
8. "Dietary regulation of miR-33b and miR-29a in relationship to metabolic biomarkers of glucose and lipids in obese diabetic women: a randomized clinical controlled study", Medical Nutrition P.hD. thesis, Tabriz University of Medical Sciences, Tabriz, Iran. 2013- 2016
9. "Study of correlation between miR-21, miR-29b and miR-142-3p expression levels and progression of tubulointerstitial Fibrosis/Tubular Atrophy (IF/TA) in kidney transplant recipients", Medical Biotechnology P.hD. thesis, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2012- 2016

### III) Co-Investigator in Granted Projects (2011- present)

1. "Brain on chip: human iPSC derived neural cell culture on microfluidic devices as a platform for neurotoxicity testing, disease modeling and drug discovery- FAST TRACK ", Supported by Iranian National Institute for Medical Research Development (NIMAD), 2017. (Project 957049)
2. "Evolution of activity of mouse peritoneal macrophage after phagocytosis of apoptotic mesenchymal stem cells", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2017 (Project 12679)
3. "Optimization of topography and surface properties of PAN-clay scaffold via nonoclay concentrations and investigation of its effects on bone differentiation of human mesenchymal stem cells ", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2017 (Project 12622)
4. "Preparation of three-dimensional hydrogel scaffolds with high porosity on the basis of polyvinyl alcohol-polytetrafluoroethylene-graphene oxide for application in bone tissue engineering", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2017 (Project 12620)
5. "In vitro production of T lymphocyte expressing chimeric auto antibody receptor (CAAR) against MBP", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016 (Project 12246)
6. "*In vitro* evaluating of exosomes derived from miRNAs overexpressing mesenchymal stem cells on angiogenesis", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016 (Project 12985)
7. "Evaluation the effect of texosome (enriched with HSP) of Heated colorectal tumor cell in maturation of dendritic cell differentiated from bone marrow BALB/c mice in vitro", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015 (Project 10059)
8. "Designing of a novel strategy for regeneration of deep thickness wound in animal model using hydrogel made from chitosan and lacto-N-neotetraose oligosaccharide antigen of schistosoma parasite ", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015 (Project 9417)
9. "microRNA- mediated apoptosis induction in Iranian strain *Leishmania major* (MRHO/IR/75/ER )-infected macrophages", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014 (Project 9065)
10. "Effects of dendritic cells primed with texosome (miRNA-155) on antitumor response in BALB/c mice with colorectal cancer", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2014 (Project 8993)
11. "microRNA- mediated human mesenchymal stem cell osteoblast differentiation", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2013 (Project 7673)
12. "Effects of amnion membrane covered with electrospun silk fibroin protein as a skin substitute in prevention of scar formation in deep-partial wounds created in a rabbit ear model", Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2012 (Project 5066)

## PUBLICATIONS

### I) Peer-Reviewed Articles

#### Lead Authorships (\* Corresponding Author)

- 1- **Ghanbarian H**, Eftekhary M, Wagner KD\*. Small activating RNAs: towards development of new therapeutic agents and clinical treatments. *Current Pharmaceutical Biotechnology* 2018. under review
- 2- Musavi M, Kohram F, Abbasi M, Bolandi Z, Ajoudanian M, Mohammadi-Yeganeh S, Hashemi S.M, Sharifi K, Fathi H, **Ghanbarian H\***. *Rn7SK* small nuclear RNA is involved in cellular senescence. *Journal of Cellular Physiology* 2018. Accepted
- 3- Bolandi Z, Hosseini-Rad S.M.A, Hashemi S.M, Souidi S, **Ghanbarian H\***. A simple and highly efficient method for transduction of human Adipose-Derived Mesenchymal Stem Cells (hAD-MSCs). *Journal of Cellular Biochemistry* 2018. 120(2): 1726-1734
- 4- Mokhberian N, Hashemi S.M, Jajarmi V, Eftekhary M, Koochaki A, **Ghanbarian H\***. *Sirt1* antisense transcript down-regulates in human tumors and stem cells. *Medical Oncology* 2018. under review
- 5- Bazi Z, Bertacchi M, Abasi M, Mohammadi-Yeganeh S, Soleimani M, Wagner N, **Ghanbarian H\***. *Rn7SK* small nuclear RNA is involved in neuronal differentiation. *Journal of Cellular Biochemistry* 2018. 119(4):3174-3182
- 6- Gholipour-malekabadi G, Seifalian M.A, Urbanska M.A, Omrani M.D, Hardy J.G, Madjd Z, Hashemi S.M, **Ghanbarian H\***, Milan P.B, Mozafari M, Reis R.L, Kundu S.C, Samadikuchaksaraei A. 3D Protein-Based Bilayer Artificial Skin for the Guided Scarless Healing of Third-Degree Burn Wounds in Vivo. *Biomacromolecules* 2018.
- 7- Kohram F, Fallah P, Shamsara M, Bolandi Z, Rassoulzadegan M, Soleimani M, **Ghanbarian H\***. Cell type- dependent functions of microRNA- 92a. *Journal of Cellular Biochemistry* 2018.
- 8- **Ghanbarian H**, Wagner K.D, Wagner N, Cuzin F, Rassoulzadegan M. Small RNA-directed epigenetic programming of embryonic stem cell cardiac differentiation. *Scientific Reports* 2017, 7: 41799
- 9- Tarhriz V, Wagner K.D, Masoumi Z, Molavi O, Hejazi M.S, **Ghanbarian H\***. *CDK9* regulates apoptosis of myoblast cells by modulation of microRNA-1 expression. *Journal of Cellular Biochemistry* 2017,
- 10- Abasi M, Kohram F, Fallah P, Arashkia A, Soleimani M, Zarghami N, **Ghanbarian H\***. Differential maturation of miR-17~92 cluster members in human cancer cell lines. *Applied Biochemistry and Biotechnology* 2017, 182(4):1540-1547
- 11- Daneshpour M, Omidfar K, **Ghanbarian H\***. A novel electrochemical nanobiosensor for the ultrasensitive and specific detection of femtomolar-level gastric cancer biomarker miRNA-106a. *Beilstein Journal of Nanotechnology* 2016, 7(1):2023-2036
- 12- **Ghanbarian H**, Wagner N, Baudouy D, Kiani J, Michiels J.F, Cuzin F, Rassoulzadegan M, Wagner K.D. Dnmt2/Trdmt1 as Mediator of RNA Polymerase II Transcriptional Activity in Cardiac Growth. *Plos One* 2016, 11(6): e0156953
- 13- Abasi M, Bazi Z, Mohammadi-Yeganeh S, Soleimani M, Haghpanah V, Zargami N, **Ghanbarian H\***. *7SK* small nuclear RNA transcription level down-regulates in human tumors and stem cells. *Medical Oncology* 2016, 33 (11):128
- 14- Mohammadi S, Ebrahimi-Mameghani M, Arefhosseini S.R, Fallah P, Jafarabadi M.A, Zununi S, Soleimani M, Banitalebi-Dehkordi M, **Ghanbarian H\***. Dietary Regulation of miR-33b and miR-

- 29a in Relationship to Metabolic Biomarkers of Glucose and Lipids in Obese Diabetic Women: A Randomized Clinical Controlled Study" *Iranian Red Crescent Medical Journal* 2016, 19 (1)
- 15- Gholipourmalekabadi M, Mozafari M, Bandehpour M, Salehi M, Sameni M, Hugo Caicedo H, Mehdipour A, Ghasemi H, Samadikuchaksaraeim A, **Ghanbarian H\***. Optimization of nanofibrous silk fibroin scaffolds as a delivery system for bone marrow adherent cells. *Biotechnology and Applied Biochemistry* 2014, 62(6):785-794
- 16- Keramati F, Seyedjafari E, Fallah P, Soleimani M, **Ghanbarian H\***. 7SK small nuclear RNA inhibits cancer cell proliferation through apoptosis induction. *Tumor Biology* 2014, 36(4):2809-2814
- 17- **Ghanbarian H**, Grandjean V, Cuzin F, and Rassoulzadegan M. A network of regulations by small non-coding RNAs: the P-TEFb kinase in development and pathology. *Frontiers in Genetics* 2011, 2(95):1-6
- 18- **Ghanbarian H**, Zomorodipour A, Ataei F, Shojai S, and Yakhchali B. The expression of Human Granulocyte Macrophage Colony Stimulating Factor by Heat-induction in Escherichia coli. *Journal of Sciences, Islamic Republic of Iran* 2004, 15(3): 203-210

### Co-Authorships

- 19- Gholipour-malekabadi M, Samadikuchaksaraei A, Seifalian A.M, Urbanska A.M, **Ghanbarian H**, Hardy J.G, Omrani M.D, Mozafari M, Reis R.L, Kundu S.C. Silk fibroin/amniotic membrane 3D bi-layered artificial skin. *Biomedical Materials* 2018, 13(3):035003
- 20- Hosseini V, Mohammadi- Yeganeh S, **Ghanbarian H**, Hashemi S.M, Khojasteh A. The power of precise bioinformatics prediction of miRNA: mRNA interactions: miR- 4699 as a potential inducer of Wnt signaling pathway. *Journal of cellular biochemistry* 2018, 119(7):5960-5969
- 21- Mahboudi H, Kazemi B, Soleimani M, Hanaee-Ahvaz H, **Ghanbarian H**, Bandehpour M, Enderami S.E, Kehtari M, Barati G. Enhanced chondrogenesis of human bone marrow mesenchymal Stem Cell (BMSC) on nanofiber-based polyethersulfone (PES) scaffold. *Gene* 2018, 643:98-106
- 22- Mahboudi H, Soleimani M, Enderami S.E, Kehtari M, Hanaee-Ahvaz H, **Ghanbarian H**, Bandehpour M, Nojehdehi S, Mirzaei S, Kazemi B. The effect of nanofibre-based polyethersulfone (PES) scaffold on the chondrogenesis of human induced pluripotent stem cells. *Artificial cells, nanomedicine, and biotechnology* 2017, 1-9
- 23- Zununi V.S, Poursadegh Z.A, **Ghanbarian H**, Ghojazadeh M, Samadi N, Ardalan M. Upregulated Expression of Circulating MicroRNAs in Kidney Transplant Recipients With Interstitial Fibrosis and Tubular Atrophy. *Iranian journal of kidney diseases* 2017,11(5):393-393
- 24- Zununi V.S, Poursadegh Z.A, **Ghanbarian H**, Ghojazadeh M, Samadi N, Omid Y, Ardalan M. Differential expression of circulating miR-21, miR-142-3p and miR-155 in renal transplant recipients with impaired graft function. *International Urology and Nephrology* 2017, 49(9):1681-1689
- 25- Eshkiki Z.S, Ghahremani M.H, Shabani P, Firuzjaee S.G, Sadeghi A, **Ghanbarian H**, Meshkani R. Protein tyrosine phosphatase 1B (PTP1B) is required for cardiac lineage differentiation of mouse embryonic stem cells. *Molecular and cellular biochemistry* 2017, 425(1-2):95-102



- 26- Mohammadi-Yeganeh S, Paryan M, Arefian E, Vasei M, **Ghanbarian H**, Mahdian R, Karimipoor M, Soleimani M. MicroRNA-340 inhibits the migration, invasion, and metastasis of breast cancer cells by targeting Wnt pathway. *Tumor Biology* 2016, 37(7):8993-9000
- 27- Gholipourmalekabadi M, Mozafari M, Salehi M, Seifalian A, Bandehpour M, **Ghanbarian H**, Urbanska A.M, Sameni M, Samadikuchaksaraei A, Seifalian A.M. Development of a Cost-Effective and Simple Protocol for Decellularization and Preservation of Human Amniotic Membrane as a Soft Tissue Replacement and Delivery System for Bone Marrow Stromal Cells. *Advanced Healthcare Materials* 2015, 4(6):918-926
- 28- Gholipourmalekabadi M, Mozafari M, Bandehpour M, Sameni M, **Ghanbarian H**. How ethanol treatment affects the physico-chemical and biological characteristics of silk fibroin nanofibrous scaffolds. *Adv. Mater. Lett.* 2015, 6(5):391-394
- 29- Gholipourmalekabadi M, Bandehpour M, Mozafari M, Hashemi A, **Ghanbarian H**, Sameni M, Salimi M, Gholami M, Samadikuchaksaraei A. Decellularized human amniotic membrane: more is needed for an efficient dressing for protection of burns against antibiotic-resistant bacteria isolated from burn patients. *Burns* 2015, 41(7):1488-1497
- 30- Kiani J, Grandjean V, Liebers R, Tuorto F, **Ghanbarian H**, Lyko F, Cuzin F, Rassoulzadegan M. RNA-Mediated Epigenetic Heredity Requires the Cytosine Methyltransferase Dnmt2. *Plos Genetics* 2013, 9(5):1-9
- 31- Wagner K.D, Wagner N, **Ghanbarian H**, Grandjean V, Gounon P, Cuzin F, Rassoulzadegan M. RNA induction and inheritance of epigenetic cardiac hypertrophy in the mouse. *Developmental Cell* 2008, 14(6): 962-9
- 32- Ataei F, **Ghanbarian H**, Zomorodipour A, and Yakhchali B. Construction of an Escherichia coli – specific heat-inducible expression plasmid. *Modares Journal of Medical Science* 2005, 8(1):37-44

## II) Presentations in Scientific Meetings

### Approx. 30 abstracts and congress contributions

- Keynote Speaker, "Epigenetic Memory Workshop", Wiston House, West Sussex, UK, 24-26 June 2012. **Invited by Sir John B. Gurdon, Winner of the Nobel Prize for Medicine**
- Invited Speaker, The 13<sup>th</sup> Royan International Congress on Stem Cell Biology and Technology, Royan Award as a **National Winner in the field of Stem Cell Biology and Technology** for the research on "RNA Directed Programming of Embryonic Stem Cell", Tehran, Iran, September 2017
- Keynote Speaker, The first National Symposium on Genetic and Stem Cells, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran, 25 February 2016
- Keynote Speaker, The 2<sup>th</sup> International Congress on Reproduction, Tehran, Iran, May 2016
- Keynote Speaker, The first National Symposium on Induced Pluripotent Stem Cells (iPSCs), Tarbiat Modares University, Tehran, Iran, 2015

## **SCHOLARLY & PROFESSIONAL ACTIVITIES**

### **Academic Society Memberships**

1. Founding Member of the Molecular Medicine, Tehran, Iran, 2011
2. Member, Genetic and Stem Cell Council, Iranian Vice-presidency for Science and Technology (2016-present)
3. Member, Induced Pluripotent Stem Cell (iPSC) Council, Iranian Vice-presidency for Science and Technology (2016-present)
4. Member, Molecular Medicine Network, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2016-present)
5. Member of Research Council, Regenerative Medicine and Stem Cell Research Network, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2015-present)
6. Member of the interview team in the National Entrance Competition for Medical Biotechnology P.hD. program, Iran, (2015-present)
7. Member of the interview team in the National Entrance Competition for Molecular Medicine P.hD. program, Iran, (2016-present)
8. Member, Iranian Society for Biotechnology (2001-present)

### **INTERNATIONAL COLABORATIONS**

- 1- Prof. Minoou Rassoulzadegan's lab., Group leader INSERM U1091, Nice Sophia Antipolis University, Nice, France
- 2- Dr. Kay-Dietrich Wagner's lab., Group leader INSERM, Faculty of Medicine, Nice Sophia Antipolis University, Nice, France

### **REFERENCES**

- ✓ **Prof. Francois Cuzin**, Inserm U1091, Nice Sophia Antipolis University, Nice, France, Email: [francois.cuzin@unice.fr](mailto:francois.cuzin@unice.fr)
- ✓ **Prof. Minoou Rassoulzadegan**, Inserm U1091, Nice Sophia Antipolis University, Nice, France, Email: [minoo@unice.fr](mailto:minoo@unice.fr)
- ✓ **Dr. Kay-Dietrich Wagner**, Group leader INSERM, Faculty of Medicine, Nice Sophia Antipolis University, Nice, France, Email: [kay.wagner@unice.fr](mailto:kay.wagner@unice.fr)