

# Curriculum Vitae

## Personal Information:

**First name:** Fatemeh  
**Surname:** Hajizadeh-Tafti  
**Birth:** 31<sup>st</sup> March, 1990  
**Nationality:** Iranian  
**Title:** M.Sc.  
**Gender:** Female  
**Marital status:** Single  
**Address:** Stem Cell Biology Research Center  
Yazd Reproductive Sciences Institute  
Shahid Sadoughi University of Medical  
Sciences, Yazd, Iran  
Rouzbeh Cell Manufacturing Company, Yazd, Iran

**Tel:** +98 (0)35 382 470 85-6  
**FAX:** +98 (0)35 382 470 87  
**Mobile:** +98 (0)913 274 1840  
**E-mail:** [fhajizade69@yahoo.com](mailto:fhajizade69@yahoo.com)



## Positions:

- Research assistant in stem cell biology research center ([www.ssu.ac.ir/scbrc](http://www.ssu.ac.ir/scbrc)).
- Shareholder and manager of R&D section in Rouzbeh Cell Manufacturing Company ([www.rouzbeh-cmc.com](http://www.rouzbeh-cmc.com)).
- Faculty member of the Yazd Technical and Vocational University ([www.d-yazd.tvu.ac.ir/](http://www.d-yazd.tvu.ac.ir/))  
Teaching genetic counseling and general biology courses for B.Sc. students.

## Educational Background:

**2004-2008** Seyedoshohada Private Institute (High School), Yazd, Iran  
Diploma. Major in Basic Sciences

**2008-2012** Science and Art University, Yazd, Iran  
B.Sc. in Cell and Molecular Biology

**2012-2015** Azad University, Ashkezar Branch, Yazd, Iran  
M.Sc. in Cell and Molecular Biology

**M.Sc. dissertation:** Investigation of genes that involved in polycystic Kidney Disease with autosomal dominant inheritance in Yazd province

## **Honors and Awards:**

- Received a commendation from Shahid Sadoughi University of Medical Sciences, Yazd, Iran for R&D activities in Rouzbeh Cell Manufacturing Company in 2021.
- Received a commendation from Shahid Sadoughi University of Medical Sciences, Yazd, Iran for research activities in 2021.
- Awarded as a best research assistant in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Sciences, Yazd, Iran in 2019.
- Received a commendation from Shahid Sadoughi University of Medical Sciences, Yazd, Iran for research activities in 2018.
- Received a commendation from Yazd Shahid Sadoughi University of Medical Sciences for research activities in 2017.

## **Articles:**

- 1) Javidpou M, Seifati SM, Farashahi-Yazd E, **Hajizadeh-Tafti F**, Golzadeh J, Akyash F, Aflatoonian B. Mesenchymal Stem/Stromal-Like Cells from Diploid and Triploid Human Embryonic Stem Cells Display Different Gene Expression Profiles. *Iran Biomed J.* **2021**; 25(2):99-105. doi:10.29252/ibj.25.2.99.
- 2) Akyash F, Javidpou M, Farashahi-Yazd E, Golzadeh J, **Hajizadeh-Tafti F**, Aflatoonian R, Aflatoonian B. Characteristics of the human endometrial regeneration cells as a potential source for future stem cell-based therapies: A lab resources study. *Int J Reprod Biomed.* **2020**;18(11):943-950. doi:10.18502/ijrm.v13i11.7961.
- 3) Akyash F, Tahajjodi SS, Farashahi-Yazd E, **Hajizadeh-Tafti F**, Sadeghian-Nodoushan F, Golzadeh J, Heidarian -Meimandi H, Moore H, Aflatoonian B. Derivation of new human embryonic stem cell lines (Yazd1-3) and their vitrification using Cryotech and Cryowin tools: A lab resources report. *Int J Reprod Biomed.* **2019**; 17 (12):891-906. doi:10.18502/ijrm.v17i12.5808.
- 4) Javidpou M, Golzadeh J, **Hajizadeh-Tafti F**, Aflatoonian B. Tissue Engineering for Reconstitution of Human Testicular Niche; One Step Closer to Fertility Preservation and Male Infertility Treatment. *Innovations Tissue Eng Regen Med.* **2019**; 1 (3):20; 282 (5391):1145-57. ITERM.000512.2019.
- 5) **Hajizadeh-Tafti F**, Dehghani MR, Farashahi-Yazd E, Golzadeh M, Vahidi Mehrjardi MY, Kalantar SM. Linkage Analysis of Autosomal Dominant Polycystic Kidney Disease in Iranian Families through PKD1 and PKD2 DNA Microsatellite Markers. *Nephro-Urology Monthly.* **2017** Jul 31; 9 (4). doi:10.5812/numonthly.59996.

## **Posters and oral presentations in National and International Congresses:**

- 1) Hassan-Nasab M, Dehghani-Ashkezari M , Farashahi -Yazd E , Montazeri F, **Hajizadeh-Tafti F**, Golzadeh J, Aflatoonian B. Yazd Human Testicular Derived Cells (YhTCs) Display Immunomodulatory Feature Similar To Mesenchymal Stem Cells In Different Passage Numbers. The 17<sup>th</sup> Royan International virtual congress on Stem Cell Biology and Technology in Tehran in Iran (4<sup>th</sup>-5<sup>th</sup> September **2021**). (**Poster**)
- 2) Tahajjodi SS, Farashahi-Yazd E, Agharahimi A, **Hajizadeh-Tafti F**, Akyash F, Aflatoonian B. Cumulus cells conditioned medium as an *in vitro* niche for differentiation of human embryonic stem cells to female germ cells. The 35<sup>th</sup> annual European Society of Human Reproduction and Embryology (ESHRE2019) Conference in Vienna in Austria (23<sup>rd</sup>- 26<sup>th</sup> June **2019**). (**Poster Discussion**)
- 3) Shahriary Sh, Farashahi-Yazd E, **Hajizadeh-Tafti F**, Golzadeh J, Tahajjodi SS, Akyash F, Aflatoonian B. Human Embryonic Stem Cells Derived Mesenchymal Stem Cells Conditioned Medium for Chondrogenic Induction of Human Embryonic Stem Cells. Royan 20<sup>th</sup> Congress on Reproductive Biomedicine and Royan 15<sup>th</sup> Congress on Stem Cell Biology and Technology in Tehran in Iran (28<sup>th</sup>-30<sup>th</sup> August **2019**). (**Poster**)
- 4) Tahajjodi SS, Akyash F, Farashahi-Yazd E, Aflatoonian R, **Hajizadeh-Tafti F**, Aflatoonian B. Differentiation of human embryonic stem cells to female germ cells using human cumulus cells conditioned medium. The 16<sup>th</sup> annual International Society for Stem Cell Research (ISSCR 2018) meeting in Melbourne in Australia (20<sup>th</sup>-23<sup>rd</sup> June **2018**). (**Poster**)
- 5) Akyash F, Tahajjodi SS, Farashahi-Yazd E, Aflatoonian R, **Hajizadeh-Tafti F** , Aflatoonian B. Conditioned medium from human testis derived cell cultures as an *in vitro* niche for male germ cell development from human embryonic stem cells. The 16<sup>th</sup> annual International Society for Stem Cell Research (ISSCR 2018) meeting in Melbourne in Australia (20<sup>th</sup>-23<sup>rd</sup> June **2018**). (**Poster**)
- 6) Aflatoonian B, Hekmati moghadam SH, Jebali AB , Nikukar H, Farashahi- Yazd E, Sadeghian-Nodoushan F, Borzouie Z, Akyash F, Tahajjodi SS, **Hajizadeh-Tafti F** , Aflatoonian R .Stem cell biotechnology, tissue engineering and regenerative medicine to cure male infertility disorders. The 1st Congress of the Society of Urologists and Andrologists of Astana, in Astana in Kazakhstan (24<sup>th</sup>-25<sup>th</sup> May **2018**). (**Oral**)
- 7) Aflatoonian B, Sadeghian-Nodoushan F, Akyash F, Tahajjodi SS, Avijegani N, **Hajizadeh-Tafti F** , Heidarianpour F, Farashahi Yazd E , Nikukar H, Moore H. Human embryonic stem cells (hESCs) and good manufacturing practice (GMP). The 2<sup>nd</sup> International Stem Cells and Regenerative Medicine Congress in Mashhad in Iran (19<sup>th</sup>-21<sup>st</sup> April **2017**). (**Oral**)

8) Sadeghian- Nodoushan F, **Hajizadeh-Tafti F**, Avijegani N, Heidarianpour F, Farashahi-Yazd E, Aflatoonian B. Derivation of Mesenchymal Stem/Stromal Cells from Human Embryonic Stem Cells. The 2<sup>nd</sup> International Stem Cells and Regenerative Medicine Congress in Mashhad in Iran (19<sup>th</sup>-21<sup>st</sup> April 2017). (Poster)

9) Akyash F, Tahajjodi SS, Sadeghian- Nodoushan F, **Hajizadeh-Tafti F**, Avijegani N, Heidarianpour F, Farashahi-Yazd E, Aflatoonian B. A Microdrop Culture System for the Initial Generation of the Human Embryonic Stem Cells Derived Neuronal Progenitor-Like Cells. The 3<sup>rd</sup> National and 2<sup>nd</sup> International Congress on Stem Cells and Regenerative Medicine, Congress in Mashhad in Iran (19<sup>th</sup>-21<sup>st</sup> April 2017). (Poster)

10) Tahajjodi SS, Akyash F, Sadeghian-Nodoushan F, Avijegani N, **Hajizadeh-Tafti F**, Heidarianpour F, Farashahi-Yazd E, Aflatoonian B . The Different Passage Numbers of The Different Human Foreskin Fibroblast Lines Support Different Human Embryonic Stem Cell Lines in Culture. The 3<sup>rd</sup> National and 2<sup>nd</sup> International Congress on Stem Cells and Regenerative Medicine, Congress in Mashhad in Iran (19<sup>th</sup>-21<sup>st</sup> April 2017). (Poster)

11) **Hajizadeh-Tafti F**, Kalantar SM , Farashahi-Yazd E, Investigation of genes that involved in polycystic kidney disease with autosomal dominant inheritance in Yazd province. The 2<sup>nd</sup> International Congress of Nephrology and Urology in Tehran in Iran (1<sup>st</sup>-4<sup>th</sup> August 2016). (Oral)

12) **Hajizadeh-Tafti F**, Dehghani MR, Farashahi-Yazd E , Montazeri F, Golzadeh M, Karimi R, Sabagh S, Kalantar SM . Investigation of PKD1 gene that involved in polycystic kidney disease with autosomal dominant inheritance in Yazd province. The 1<sup>th</sup> new biology conference, Azad Islamic University, Ashkezar Branch in Yazd in Iran (7<sup>th</sup> march 2016). (Poster)

13) Mirzazade A, Zebhi M, **Hajizadeh-Tafti F**, Assessment effect of Mir-21 in Glioblastoma Multiforme. The 7<sup>th</sup> Annual Conference of Neurogenetics in Yazd in Iran (31<sup>st</sup> January 2014). (Poster)

#### **Attended Conferences:**

**2019:** Attending to the 15<sup>th</sup> Royan International Congress of Stem Cell Biology & Technology. Tehran, Iran.

**2016:** Attending to the 2<sup>th</sup> International Congress of Urology and Nephrology. Tehran, Iran.

**2015:** Attending to the 1<sup>st</sup> Congress of Genetics and 6<sup>th</sup> Congress of Biology of Reproductive Sciences. Yazd, Iran.

**2015:** Attending to the 6<sup>th</sup> Yazd International Congress and student Award in reproductive medicine. Yazd, Iran.

**2010:** Attending to the International Reproductive Science Biology Seminar. Yazd, Iran.

#### **Attended Workshops and training courses:**

**2017:** Principle of Article writing in scientific high Impact Factors Journals in Yazd Reproductive Science Institute. Yazd, Iran.

**2014:** DNA extraction, Agarose gel electrophoresis, PCR. Ashkezar Azad University Yazd, Iran.

**2014:** Blood sampling training course. Central laboratory .Yazd, Iran.

**2013:** DNA extraction from blood and gel electrophoresis. Javad University Yazd, Iran.

**2013:** Karyotype. Ashkezar Azad University .Yazd, Iran.

**2013:** RT-PCR. Abortion Research Center .Yazd Reproductive Science Institute. Yazd, Iran.

**2013:** FISH Technique. Abortion Research Center .Yazd Reproductive Science Institute. Yazd, Iran.

#### **Faculty member in workshops:**

**2018:** Adult Stem Cells culture workshop held in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute. Yazd, Iran.

**2018:** Vitrification of Human Embryonic Stem Cells Workshop held in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute. Yazd, Iran.

**2017:** Human Embryonic Stem Cells Workshop held in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute. Yazd, Iran.

**2017:** Adult Stem Cells culture workshop held in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute. Yazd, Iran.

**2017:** Human embryonic stem cell freezing workshop held in Stem Cell Biology Research Center in Yazd Reproductive Sciences Institute. Yazd, Iran.

#### **Professional Activities:**

**2017 until now:** Member of the Research Council Committee of the Stem Cell Biology Research Center, Yazd Reproductive Sciences Research Institute. Yazd, Iran.

**2017:** Executive staff of one-day workshop on GMP theory and practice and human embryonic stem cells. Stem Cell Biology Research Center. Yazd Reproductive Science Institute. Yazd, Iran.

**2016:** Executive staff of adult and embryonic stem cell culture workshop. Stem Cell Biology Research Center. Yazd Reproductive Science Institute. Yazd, Iran.

**2015:** Member of the Executive Committee of the specialized national seminar on recurrent abortion. Yazd, Iran.

**2013:** Member of the Executive Committee of the national 7<sup>th</sup> Neurogenic Congress. Yazd, Iran.

**Teachings:**

- Genetic counseling course for 8 terms for graduate students in Yazd Technical and Vocational University (2017-2022).
- Practical part of the cell culture course for postgraduate medical biotechnology students (2020).
- Practical part of the stem cell course for Ph.D. students in Reproductive Biology (2020).
- Biology course for 4 terms for graduate students in Yazd Technical and Vocational University (2019-2020).
- Practical part of the stem cell course for Ph.D. students in Reproductive Biology (2017).

**Research assistant in Research Projects and Student dissertations:**

- Production of clean meat in Rouzbeh Cell Manufacturing Company (R&D Project).
- Characterization of Yazd Human Embryonic Stem Cell lines (Research Project).
- Evaluation of the expression of the CD105 and FIBRONECTIN markers by human embryonic stem cells derived mesenchymal stromal cells (Research Project).
- Generation of iPSCs from human fibroblasts by delivering of OCT4, SOX2, KLF4 and C-MYC (Research Project).
- An Evaluation of electrospun Silk Fibroin/Polyurethane Scaffold Compatibility for Human Embryonic Stem Cells Growth (Research Project).
- Embryonic stem cell genetic manipulation for stable expression of Cas9 protein (Research Project).
- Evaluation of secreted metabolites in differentiated human embryonic stem cells to female germ cells using cumulus cells conditioned medium (Ph.D. Thesis).
- Evaluation of secreted metabolites in differentiated human embryonic stem cells to male germ cells using (Ph.D. Thesis).
- An investigation of mesenchymal stem/stromal cell gene expression profile of the cells differentiated from human embryonic stem cells in DMEM/10%FBS culture (Master Thesis).
- The investigation of hESCs-derived- MSCs conditioned medium and sequential 3D-2D culture system on hESCs chondrogenic differentiation (Master Thesis).
- A comparative analysis of Immunomodulatory genes in different passages of human testicular derived cells in culture (Master Thesis).

## **Skills:**

- Cell and tissue culture (Human Embryonic Stem Cells and adult cells)
- Cell Count
- Preparation of feeder layer for co-culture of cells
- Extraction DNA
- Extraction RNA
- DNase treatment
- cDNA synthesis
- PCR & RT-PCR
- Vertical and horizontal electrophoresis
- Preparation of Polyacrylamide and agarose gel
- Stained with silver nitrate
- Immunofluorescent staining (IF)
- Cell viability test using DAPI staining
- Isolation and culture of aborted fetal cells
- Harvest and G-banding
- Bloodletting and Blood cultures
- END NOTE
- Computer skills (Microsoft office) & internet usage

## **People who can recommend:**

- Prof. Abbas Aflatoonian: Research and Clinical Center for Infertility, Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Sciences, Yazd, Iran. ([abbas\\_aflatoonian@yahoo.com](mailto:abbas_aflatoonian@yahoo.com)).
- Prof. Seyed Mehdi Kalantar: Abortion Research Centre, Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Science, Yazd, Iran. ([smkyzd@gmail.com](mailto:smkyzd@gmail.com)).
- Dr. Behrouz Aflatoonian: Stem Cell Biology Research Center. Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Sciences, Yazd, Iran. ([b.aflatoonian@ssu.ac.ir](mailto:b.aflatoonian@ssu.ac.ir)).

● Dr. Ehsan Farashahi Yazd: Stem Cell Biology Research Center. Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Sciences, Yazd, Iran. ([ehsanfarashahi@gmail.com](mailto:ehsanfarashahi@gmail.com)).