

# In The Name of God

## curriculum Vita

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### 1. Personal Particulars:

**Surname:** Saberzadeh

**First name:** Jamileh

**Date of birth:** 05/10/1364

**Place of birth:** Shiraz, Iran

**Nationality:** Iranian

**Gender:** Female

**Status:** Married

### Degree:

Assistant Professor of Medical Biotechnology, Shiraz university of Medical Sciences, Shiraz, Iran

### Email:

[saberzadej@sums.ac.ir](mailto:saberzadej@sums.ac.ir)

[j.saberzadeh@gmail.com](mailto:j.saberzadeh@gmail.com)

### Contact Info:

Department of Laboratory sciences

School of Paramedical Sciences

Shiraz University of Medical Sciences, Shiraz, Iran

Tel: +98713 2295023 Ext 255

Fax: +98713 2295023

### Language abilities:

- 1- English: Excellent speaking level- excellent written command, MCHE Certified.
- 2- Farsi (Mother Tongue).

## 2. Graduate and Post-Graduate Qualifications

1. **2009:** BsC in laboratory sciences, Paramed. School., Shiraz Univ. of Med. Sci., Shiraz, Iran.

2. **2012:** MsC in Medical Biotechnology, Paramed. School., Shiraz Univ. of Med. Sci., Shiraz, Iran.

**Thesis title:**

The effect of Alpha-synuclein gene expression on Aluminum cytotoxicity in PC12 cells.

3. **2017:** PhD student in Medical Biotechnology, School of Advanced Medical Science and Technologies, Shiraz Univ. of Med. Sci., Shiraz, Iran.

**Ph.D Thesis title:**

Design and production of a kit for prenatal diagnosis of Trisomy 18 (Edward syndrome) and sex chromosomal aneuploidies using short tandem repeats and sequence-tagged site in Iranian population.

### 3. Special Honors

1. **1nd ranked** amongst Medical biotechnology **MsC students** in Paramed. School., Shiraz Univ. of Med. Sci., Shiraz, Iran.1388 (**18.39**).
4. **2nd ranked** amongst **PhD students** in Medical Biotechnology, School of Advanced Medical Science and Technologies, Shiraz Univ. of Med. Sci., Shiraz, Iran (**18.74**).
2. **3nd ranked** amongst Laboratory sciences students in Paramed. School., Shiraz Univ. of Med. Sci., Shiraz, Iran.1391. (17.37).

### 4. Research experiences

1. Expert in Cell culture techniques
2. All genetic engineering techniques (Plasmid isolation, Restriction enzyme digestion, Cloning, ...)
3. Working with Genetic Analyser (fragment Analysis, sequencing, Data analysis...)
4. Expert in multiplex PCR
5. Prenatal diagnosis of aneuploidies
6. Quantitative Fluorescent PCR
7. Cell viability assays (Flow cytometric techniques, MTT assay and staining techniques)
8. PCR (Nested, Simple, RT PCR,...)

9. SDS-PAGE electrophoresis and Western blotting

10. Biochemical techniques (Catalase, MDA...)

11. Transfection methods (Electroporation, ...)

12. Flowcytometry

13. Bioinformatics

14. Flowcytometric detection of oxidative stress

15. fluorimetry

## 5. Teaching experiences:

1. Medical microbiology, practical courses, laboratory sciences students, Paramed. School., Shiraz Univ. of Med. Sci., Shiraz, Iran.1389-1391.

2. Biochemistry, practical courses, laboratory sciences students, Paramed. School. Shiraz Univ. of Med. Sci., Shiraz, Iran.1393-1395.

3. Cellular and molecular Biology, Radiology students, Paramed. School. Shiraz Univ. of Med. Sci., Shiraz, Iran. 1394- 1395.

4. Biochemistry, practical courses, laboratory sciences students, Azad univerdity of Kazeron.1393-1394.

5. Lecturer: 2018- present

## 6. Publications

1. Alpha synuclein protein is involved in Aluminum-induced cell death and oxidative stress in PC12 cells. **J Saberzadeh**, R Arabsolghar, MA Takhshid. Brain research, 2016.

2. Genetic variations of 21 STR markers on chromosomes 13, 18, 21, X, and Y in the south Iranian population. **J Saberzadeh**, MR Miri, MB Tabei, M Dianatpour. Genetics and molecular research: GMR, 2016.
3. Protective effects of nimodipine and lithium against aluminum-induced cell death and oxidative stress in PC12 cells. **J Saberzadeh**, M Omrani, MA Takhshid - Iranian journal of basic medical sciences, 2016.
4. The protective effect of sodium benzoate on aluminum toxicity in PC12 cell line. R Arabsolghar, **J Saberzadeh**, F Khodaei, R Abbasi Borojeni, M Khorsand, and M Rashedinia. Research in Pharmaceutical Sciences, 2017. In press.
5. Construction of bacterial ghosts for transfer and expression of a chimeric hepatitis C virus gene in macrophages. MR Miri , A Behzad-Behbahani , M Fardaei , A Farhadi , Y Talebkhan , M Mohammadi , M Tayebinia , F Farokhinejad, P Alavi , M Fanian , F Zare ,**J Saberzadeh** , N Nikouyan , MA Okhovat , R Ranjbaran , G Rafiei Dehbidi , S Naderi. Journal of microbiological methods, 2015.
6. Prevalence of 2 UGT1A1 Gene Variations Related to Gilbert's Syndrome in South of Iran: An Epidemiological, Clinical, and Genetic Study. MR Heydari, M Fardaei, MR Kadivar, A Rezaianzadeh, MR Panjeshahin, Z Gholami Bardeji, MR Miri, and **J Saberzadeh** - Iranian Red Crescent Medical Journal, 2017.
7. Segmental duplication as a complement strategy to short tandem repeats in prenatal diagnosis of Down syndrome. MR Miri, **J Saberzadeh**, MB Tabei, M Fardaei, A Behzad-Behbahani. Iranian Journal of Medical Sciences, January 2019.
8. The synergistic effects of celecoxib and sodium valproate on apoptosis and invasiveness behavior of papillary thyroid cancer cell line in vitro. MA Takhshid, M Fanian, S Naderi, M Alizadeh Zareie, MA Okhovat, **J Saberzadeh**, M Mozafari, M Bahmani, A Dehshahri. Iranian Journal of Pharmaceutical Research, April 2018.
9. First Report of Small Supernumerary Marker Chromosome 18 in a Klinefelter Fetus. **J Saberzadeh**, MR Miri, M Dianatpour, A Behzad Behbahani, MB Tabei, M Alipour, MA Faghihi, M Fardaei. Iranian Journal of Medical Sciences, 2019.

10. Glycyrrhizic acid ameliorates mitochondrial function and biogenesis against aluminum toxicity in PC12 cells. M Rashedinia, **J Saberzadeh**, et al. Neurotoxicity Research, 2019.
11. Sodium valproate ameliorates aluminum-induced oxidative stress and apoptosis of PC12 cells. F Iranpak, J Saberzadeh, et al. Iranian Journal of Basic Medical Sciences, 2019.
12. The hydroalcoholic extract of saffron protects PC12 cells against aluminum-induced cell death and oxidative stress in vitro. Sh Rahmani, J Saberzadeh, et al. Iranian Journal of Medical Sciences, 2020.
13. The effect of sodium fluoride on aluminum-induced oxidative stress and apoptosis of pc12 in vitro. A Hoorang, J saberzadeh, et al. Fluoride, 2020.
14. Effect of sodium benzoate on apoptosis and mitochondrial membrane potential after aluminum toxicity in PC-12 cell line. M Rashedinia, J Saberzadeh, et al. Iranian Journal of Toxicology, 2020.
15. Anti-lung Cancer Marine Compounds: A Review. MR Miri, A Zare, J Saberzadeh, et al. Therapeutic Innovation & Regulatory Science, 2022.
16. Syringic acid induces cancer cell death in the presence of Cu (II) ions via pro-oxidant activity. M Rashedinia, A Nasrollahi, M Shafaghat, Sh Momeni, F Iranpak, J Saberzadeh, et al. Asian Pacific Journal of Tropical Biomedicine, 2022.

## 7. Patent

1. Miri, Mohammad Reza. **Saberzadeh, Jamileh**. Behzad Behbahani, Abbas. Fardaei Majid. Tabei, Seyed Mohammad Bagher. 2017. Designing and production a kit for prenatal diagnosis of 13, 18, 21, X and y chromosomal aneuploidies. **I. R. Patent 91177**. Filed July 21 2016, and issued 29 January 2017.

## 8. Book

Hosseini, Seyed Younes. Dianatpour, Mehdi. **Saberzadeh, Jamileh** and et al. (2017). Basics, concept and application of gene therapy. Tehran. Khane ketab.

## 9. Presentations

1. Miri M.R, **Saberzadeh J**, Aboualizadeh F, Behzad Behbahani A, et al. No evidence of link between anti-Hepatitis C virus and autoimmune antibodies using enzyme immune assay method. The 4th **International** Tehran Hepatitis Congress (THC4), Nov 2011, Tehran, Iran. Certification Nom: 114462.
2. **Saberzadeh J**, Miri MR, Aboualizadeh F, et al. Determination of HCV RNA among blood donors positive for Hepatitis C virus ELISA and indeterminate (IND) blotting assay. The 5th Iranian congress of clinical microbiology, Nov 2011, Shiraz, Iran. Certification Nom: 114435.
3. Takhshid MA, **Saberzadeh J**, Arabsolghar R. The role of alpha-synuclein protein in Aluminium-induced cell dead in PC12 cells. The 13th Iranian international congress of toxicology. 22-24th May, 2015, Urmia, Iran.
4. Miri MR, **Saberzadeh J**, Fardaei M. Multiplex QF-PCR for prenatal diagnosis of Down syndrome. 4th congress on novel and innovative laboratory technologies. October 26-28, 2016, Tehran, Iran.
5. **Saberzadeh J**, Miri MR, Fardaei M, Dianatpour M. Prenatal diagnosis and characterization of a small supernumerary marker chromosome 18 using quantitative fluorescent polymerase chain reaction. 2th National Congress of Basic Medical Sciences & Knowledge-based Production, February 21- 24, 2017, Tehran, Iran.
6. Najafi S, **Saberzadeh J**, Miri MR, Arabsolghar R. Optimization of cloning and expression of Taq DNA polymerase in pET28a vector. 1st international joint conference on new trends in biotechnology. April 18-19, 2017, Zabol, Iran.

## 9. Thesis supervised

14 MSc thesis

3 supervisor

11 advisor

## 10. Research interests

1. Recombinant enzymes production and purification.
2. Dopaminergic neuron diseases and Aluminum neurotoxicity.
3. Design and production of diagnostic kits.
4. Gene and cell therapy for hereditary diseases.