

Parvaneh Afsharian, B.Sc, M.Sc., PhD

Personal details

Name: Parvaneh Afsharian
Gender: Female

Occupations

Assistant professor, PhD

- 1- Head of department of Genetics, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran
- 2- Head of Genetics department , [University of Science and Culture](#), Tehran, Iran

PO.BOX:19395-4644, Tehran, Iran

Mobile: (98) 93 68 93 93 92

Phone: (98) 21 23562736

Fax: (98) 21 23562681

E-mail: pafshar@Royaninstitute.org

Parvaneh.Afsharian@gmail.com

P_afsharian@yahoo.com

Education

- Apr 2008-Mar 2010 ***Postdoctoral fellow II***,
Hematology and Transfusion Medicine, Dept. of Lab Medicine,
Lund University, Lund, *Sweden*
- Dec 2006-March 2008 ***Postdoctoral fellow I***,
Experimental Cancer Medicine, Dept. of Lab Medicine,
Karolinska Institutet, Stockholm, *Sweden*
- June 2003- Nov. 2006 ***PhD*** in **Experimental Medicine** (pharmacogenetics)
Department of Medicine, Karolinska Institutet, *Sweden*,
2007-11-24.
- Feb. 1995- June 1998 ***M.Sc.*** in **Biology and Genetics**
Department of Biology, Science & Research branch.
Islamic Azad University, Tehran, *Iran*
- Sept. 1987- Dec. 1992 ***B.Sc.*** in **Biology**, majored in Zoology
Department of Biology, Science faculty,
Ferdowsi University, Mashad, *Iran*
- Jan. 1985- July 1990 ***B.Sc.*** in **Chemistry**
Department of Chemistry, Science faculty,
Islamic Azad University, Mashad, *Iran*

Degrees' Project-Titles

- Apr 2008-Apr 2010 **Localized targeted therapy by using tissue specific promoter and granules as storage compartments for therapeutic proteins in hematopoietic cells as vehicles in a mouse models.**
Project for postdoc II. Hematology and Transfusion Medicine, Dept. of Lab Medicine, Lund University, Lund, Sweden
- Dec 2006-March 2008 **The effect of S11 and S12 (two trial drugs) on apoptosis and cell viability using AML cell lines (KG1a; M1; NB4, M3; CMK; M7; Jurkat, ALL)- *in vitro* assay – cell viability evaluation by Resazurin (Alamar Blue) as a metabolic assay and evaluation of Apoptosis by using FACS analysis (Annexin V).**
Project for postdoc I. Experimental Cancer Medicine, Dept. of Lab Medicine, Karolinska Institutet, Stockholm, Sweden
- June 2003- Nov. 2006 **Optimization of cyclophosphamide therapy based on pharmacogenetic**
Project for PhD. Division of hematology, Dept. of Medicine, Karolinska Institutet, Stockholm, Sweden
- Feb. 1995 -June 1998 **The role of chromosome abnormalities in infertility, reproductive failure and development of secondary sex characteristics.** Project for M.Sc. in Genetics, Islamic Azad University, Tehran, Iran
- Feb. 1991 - Nov. 1992 **The study of Chromosome Abnormalities in adult leukaemia**
Project for B.Sc. in Biology, Ferdowsi University, Mashad, Iran
- June 1989 - June 1990 **The laboratory synthesis of Normetanephrine hormone** Project for B.Sc. in Chemistry, Islamic Azad University, Mashad, Iran

Research activities

- Oct. 2012-present **Genetic variation analysis of MIF in endometriosis patients referred to Royan Institue.** Dept. of Genetics, Reproductive Biomedicine Research Center, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran
- Apr. 2012- present **Genetic and Pharmacogenetic aspects of ovulation induction in anovulatory women (referred to Royan Inst.).** Dept. of Genetics, Reproductive Biomedicine Research Center, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran
- Feb.2012- present **The study of genetic variants and expression of follicular stimulating hormone receptor (FSHR) gene in patients with Polycystic Ovary Syndrome (PCOS).** Dept. of Genetics, Reproductive Biomedicine Research Center, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran

- Oct. 2011-present **Gene expression and gene polymorphism study of the Estrogen receptor (ER) and Aromatase (CYP19) in Non Obstructive Azoospermia & sever Oligoastenoteratospermia men (referred to Royan Inst.).** Dept. of Genetics, Reproductive Biomedicine Research Center, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran
- Apr. 2008-Apr.2010 **Postdoc II project.** Hematology & transfusion Medicine, Lund University, Lund, Sweden
- Dec.2006 –Mar.2008 **Postdoc I project.** Experimental Cancer Medicine, Dept. of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden
- June 2003- Nov. 2006 **PhD project.** Department of Medicine, Karolinska Institutet, Stockholm, Sweden
- Apr. 1999 – Dec. 2002 **Genetic counselling and karyotyping in infertile couples with failure IVF or consanguineous marriage.** Dept. of Clinical & Experimental Genetics, Royan Inst.,Tehran, Iran
- Mar. 1998 – Mar 2000 **Investigation on a family with Persistent Mullerian Duct Syndrome.** Dept. of Clinical & Experimental Genetics, Royan Inst., Tehran, Iran. In collaboration with INSERM, **France.**
- Feb. 1998 - Nov.1998 **Establishment of lymphoblastoid cell lines.** Clinical Genetic Centre, Iranian Blood Transfusion Organisation (IBTO), Tehran
- Aug. 1998 - Sep. 1998 **Establishment of bone marrow cultivation.** Clinical Genetic Centre, IBTO, Tehran, Iran
- Nov. 1996 - Mar. 1997 **Major contribution to establish diagnostic cytogenetic laboratory.** Clinical Genetics Centre, IBTO, Tehran, Iran
- Mar. 1993 - Feb. 1994 **Investigation of herbal antimetabolic and the efficiency by in vivo methods,** Dept. of biology, Ferdowsi Univ., Mashad, Iran
- Nov. 1992 - Mar. 1993 **Develop a new drug formulation from natural sources,** Research Lab, Samen serum manufactory, Mashad, Iran

Publications

1. Mahdian S, Aflatoonian R, Salman Yazdi R, Yaghmaei P, Ramazanali F, **Afsharian P**, Shahhoseini M. Macrophage migration inhibitory factor as a potential biomarker of endometriosis. Fertil Steril. 2014: accepted, doi: 10.1016/j.fertnstert.2014.09.031.

2. Chekini Z, **Afsharian P**, Akhlaghi AA, Ramazanali F, Shahhoseini M, Aflatoonian R. Endometriosis is influenced by functional promoter polymorphisms of macrophage migration inhibitory factor. *Submitted Manuscript*.
3. El-Serafi I, Abedi-Valugardi M, Potáčová Z, **Afsharian P**, Mattsson J, Moshfegh A, Hassan M. Cyclophosphamide alters the gene expression profile in patients treated with high doses prior to stem cell transplantation. *PLoS One*. 2014; 9(3): e93239
4. Modaresi-nejad N, Tarahomi N, Shiva M, **Afsharian P**. Novel +90 G>A intronic polymorphism of CYP2D6. *Cell Journal*, 2014, accepted
5. Niknejadi M, Ahmadi F, Akhbari F, **Afsharian P**. Sonographic findings in partial type of trisomy 18: A case report. *International Journal of Fertility and Sterility*, 2014 April; 7(4): 349-352.
6. **Afsharian P**, Terelius Y, Nilsson C, Hassan Z, Lundgren S and Hassan M. The effect of repeated administration of cyclophosphamide on CYP2B in rat. *Clinical Cancer research*, 2007; 13(14): 4218-4224.
7. **Afsharian P**, Möllgård L, Hassan Z, Xie H, Kimby E and Hassan M. The effect of ciprofloxacin on cyclophosphamide pharmacokinetics in patients with non-Hodgkin lymphoma. *Eur J Haematol*, 2005; 75(2): 206-211
8. Xie H, **Afsharian P**, Terelius Y, Mirghani RA, Yasar U, Hagbjörk AL, Lundgreen S, Hu Y, Rane A and Hassan M. Cyclophosphamide induces mRNA and enzyme activity of cytochrome P450 in rat. *Xenobiotica*, 2005 March; 35(3): 239-251.
9. Farhadi M, Kazemi Ashtiani S, Sadoghi M, Forootan SS, **Afsharian P**, Baharvand H. Separation of X and Y bearing mouse spermatozoa by puresperm gradient method. *Kowsar Medical Journal*, 2004 Spring, 9(Part 1):39-44 (in Persian).
10. Sadighi Gilani MA, **Afsharian P**, Hajianpour AK, Sayar H. Chromosome study in Azoospermic men. *The Iranian Journal of Urology*, 2002, 8(32); 15-20 (in Persian).

Book

Baharvand H, Sheikhan A, Mirhabibi B, Pooyan M, **Afsharian P** et al. Essential Cell Biology, An Introduction to the Molecular Biology of the Cell, eds : Alberts B. et al. First Edition (1998): House of Biology Press (Tabeshe Andisheh).Iran (translated from English to Persian 2003).

Award

- Postdoc Scholarship in Targeted Therapy from Lund University, Lund, Sweden (2008-2010)
- PhD scholarship in Pharmacogenetics of bone marrow Transplantation from Karolinska Institutet, Stockholm, Sweden (2003-2006).
- The winner of 10th university student's year book award in part of translation (Dec. 2003). Book title was: Alberts B, Bray D, Johnson A, Lewis J, Raff M, Roberts K, Walter P; Essential Cell Biology (*An Introduction in the Molecular Biology of the Cell*), Translated by: Baharvand H, Sheikhan A, Mirhabibi B, Pooyan M, Afsharian P, Farzaneh P; House of Biology (Tabesh-e Andisheh) Press, 2003.

Mentorship

Spring 2006: Eileen J. O'Mahony, School of Biological Sciences, Dublin Institute of Technology, Ireland

Project for **BSc in biomedical Sciences** in title: Pharmacokinetic studies of cyclophosphamide, in order to optimize treatment prior to stem cell transplantation

2012- Present: Supervisors of more than 10 MSc students' projects in Cellular and Molecular biology, Developmental Biology and Genetics. Advisor of 2 PhD projects in Reproductive Biology

Merit

Reviewer in the *Journal of Cellular and Molecular Medicine*; since **May 2009**.

Reviewer in the *Cell Journal*; since **April. 2011** (www.celljournal.org)

Reviewer in the *International Journal of Fertility & Sterility*; since **Feb. 2011**

Reviewer in the *Journal of Assisted Reproduction and Genetics*; since **2012**

Registration of New Allele of CYP2D6 in Iranian population entitled: GenBank: KF225465.1 in NCBI, Sept. 24, 2013

Oral and Poster presentations: more than 50 abstracts, Appendix

Teaching experiences

Transcription & Translation course to Master of Sciences students in Cellular and Molecular biology. University of Science and Culture, Tehran, Iran. Since 2011-present

Advanced Molecular Genetics course to PhD students in Biology and Genetics. Royan Institute, Tehran, Iran, Autumn 2012

The Principles of Clinical Cytogenetics training courses and workshops to MSc and PhD

students in Biology. Iranian Biological Resource Center, Tehran, Iran. Since 2012-present

Method expertise

- Cell culture (primary cells and cell line)
- Molecular Biology methods (PCR, Cloning, functional analysis)
- Real time qPCR
- Cytogenetic studies, (cultivation, analysis and karyotyping), different banding techniques and breakage study
- Enzyme assays (*in vivo*, *ex vivo* & *in vitro*)
- HPLC analysis (biological samples)
- Western Blot
- FACS

Professional experience

Feb. 1999 – Dec. 2002 **Manager of education/administration and Researcher**, Royan Inst., Tehran

- 1- Executive member & **Administrative Manager** of Infertility Annual Meeting.
- 2- Genetics Lab Instructor.

Mar. 1997 - Oct.1998 **Research & development technologist of Cytogenetic Lab**, Clinical Genetics Center, Iranian Blood Transfusion Organization, Tehran

- 1- Performing the tissue culturing in lymphocytes and bone marrow
- 2- Preparation of metaphase chromosomes making use of different banding techniques, microscopic analysis, interpretation of results.
- 3 - Investigation of chromosome breakage studies in Fanconi Anemia and Ataxia Telangiectasia
- 4- **Teaching** of cytogenetic techniques & chromosome analysis to:
I-Hemato-Oncology Fellowships, II-Pathology students & III-Cytogenetic technologist

Address:

Parvaneh Afsharian, PhD

Department of Genetics,
Reproductive Biomedicine Research Center,
Royan Institute for Reproductive Biomedicine,
ACECR, Tehran, Iran
P.O.BOX. 19395-4644

Tel: +98 21 23562736
+98 21 22339931

Fax: +98 21 22306481

Cell phone: +98 936 893 9392

Email: pafshar@royaninstitute.org

Web site: Royaninstitute.org

Visiting Address:

Royan Institute,
4th floor, First entrance, Golbarg Allay,
Royan Allay, Eastern Hafez St,
Banihashem Sq., Resalat Highway
Post code: 1665659911
Tehran Iran