

# ANAHITA MOHSENI MEYBODI

## PERSONAL INFORMATION

**Date of Birth:** 27 July 1976

**Place of Birth:** Tehran, Iran

**Marital status:** Married, 1 Child

**Citizenship:** Iranian/ Permanent Resident of Canada

## EDUCATIONAL QUALIFICATIONS

**Postdoc in Reprogenetic:** Genetic etiology of ovarian reserve depletion— 2010 Royan Reproductive Biomedicine Research Center /Genetic Department – *Tehran, Iran*

**Doctor of philosophy in Medical Genetics** — 2008  
Tarbiat Modarres Medical School/ Dep. Of Medical Genetics – *Tehran, Iran*

**Master of Science in Genetics** — 2003  
Islamic Azad University, Science and Research branch – *Tehran, Iran*

**Bachelor of Science in Cellular and Molecular Microbiology** — 1998  
Islamic Azad University, North branch – *Tehran, Iran*

## HONOURS

- Top Student in Tarbiat Modarres PhD entrance exam, 2003
- Top Student in Tarbiat Modarres PhD General Pre-final exam, 2005
- Winner of Under 34 competition of the 14th World Congress of Gynecological Endocrinology, Italy, 2010
- Member of jury committee of Royan Research Award. (2009-Now)
- Winner of the 3rd place of applied science Researches in 24th Kharazmi International Research Award, winter 2010, Tehran, Iran
- Scientific chairperson of 12th International Royan congress on reproductive Biomedicine, 2011
- Winner of best researcher award of Royan Institute for 2013 academic year.

## JOB HISTORY

Sep 1996- Sep 1997	Biology Teacher - Tehran/ Iran
Sep 1997 - Sep 1999	Marketing Manager in Zistmand co. (Medical instruments co.)
Sep 1999- Sep 2001	Marketing Manager in Green Leaf co. (Medical instruments

Sep 2000- Oct 2004	co.) Research assistant, Royan Infertility Research Institute
Jun 2005- Feb 2009	Lecturer in Parand Islamic Azad University – Tehran, Iran
Jun 2005- May 2007	Head Of Biology Community in Azad University – Tehran, Iran
Mar 2009- Present	Academic Staff and Director of Genetic Laboratory - Royan Reproductive Biomedicine Research Center
Sep 2012- Present	Lecturer in Science and culture University – Tehran, Iran
April 2013- Present	Royan DNA bank Manager

## SUPERVISED PROJECTS

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1. Study of the DNA damage rate of Peripheral blood leukocytes of Diabetic patients using Comet-assay, Tarbiat Modares Univ. & Parand Islamic Azad Univ., 2008
2. Analysis of Haplotypes and Mutations of *USP26* (Ubiquitin Specific Protease 26) in infertile men with Azoospermia and Oligospermia, Royan Research Inst.
3. Screening for *FMR1* gene CGG repeat alleles, expression and epigenetic evaluation in poor responders and premature ovarian failure patients. Royan Research Inst.
4. Study of *FSH receptor* gene polymorphisms and expression in premature ovarian failure patients. Royan Research Inst.
5. Study of *MICA* gene polymorphisms in infertile men with Chlamydia trachomatis infection. Royan Research Inst.
6. Study of exon1 genetical alterations of Androgen Receptor (*AR*) gene and its expression in testis tissue of infertile men referred to Royan infertility center.
7. Genetic analysis and protein expression profile in men with short tail sperm.
8. Study of the relationship between genetic mutation and protein expression of beta defensin 126 and unexplained infertility in men.
9. Study of chromosomal alterations and polymorphisms of *MTHFR*, *Factor V* and *Prothrombin* genes in patients with recurrent spontaneous abortions referred to Royan infertility center.

## PUBLICATIONS

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### BOOKS - AUTHORSHIP

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1. K.Haratian, A.Mohseni- Meybodi, Principles of virology (Vol 1), Baresh-e Danesh publishers, Iran, Tehran Winter 2009
2. K.Haratian, A.Mohseni- Meybodi, Principles of virology (Vol 2), Baresh-e Danesh publishers, Iran, Tehran Winter 2012
3. K.Haratian, A.Mohseni- Meybodi, Review of medical virology, Baresh-e Danesh publishers,

## BOOKS – TRANSLATION (English to Persian)

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1. A.Mohseni- Meybodi, Z. Mansouri, Sh Zari Moradi, K.Haratian, Emery's Elements of Medical Genetics, 14th edition, Boshra publishers, Iran, Tehran, Spring 2013
2. A.Mohseni- Meybodi, Z. Mansouri, Sh Zari Moradi, M.Totonch, K.Haratian, Genetic for Dummies, Jafari publishers, Iran, Tehran, Winter 2014

## PUBLISHED PAPERS

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1. A. Mohseni Meybodi and H. Mozdarani. (2003), Human Sperm PCC Analysis in Fertile and sub fertile men using zona free Hamster oocytes, The cell (Yakhteh) medical journal ,17:15-21 [Article In Persian]
2. H. Mozdarani and A. Mohseni Meybodi. (2004), Cytogenetic Analysis of Sperm Nucleous Components of Iranian Normal and Sub-Fertile Individuals Using Zona Free Hamster Oocytes. Journal of Assisted Reproduction and Genetics, 21: (11): 409-414
3. H. Mozdarani , A. Mohseni Meybodi, H. Karimi. (2007), Impact of Pericentric Inversion of chromosome 9 [inv(9) (p11q12)] on infertility, Indian J. of Human Genetics, 13: (1): 26-29
4. A. Mohseni Meybodi, H. Mozdarani, P. Vosough. (2007), Cytogenetic sensitivity of G0 leukocytes of Fanconi anemia patients and obligate carriers to mitomycin C and ionizing irradiation, Cytogenetic and Genome Research 119: 191 – 195.
5. Mozdarani, A. Mohseni Meybodi, S .Z. Moradi, (2008), A cytogenetic study of couples with recurrent spontaneous abortion and infertile patients with recurrent I.V.F/I.C.S.I failure, Indian Journal of Human Genetics, 14: (1): 1-6
6. A. Mohseni Meybodi, H. Mozdarani, S. Mozdarani, (2009), DNA damage and repair of leukocytes from Fanconi anemia patients, carriers and healthy individuals as measured by the alkaline Comet assay, Mutagenesis ;24(1):67-73
7. A. Mohseni Meybodi, H. Mozdarani,(2009), DNA damage in leukocytes from Fanconi anemia (FA) patients and heterozygotes induced by mitomycin C and ionizing radiation as assessed by the comet and comet-FISH assay. Iran Biomed J. 13(1):1-8H.
8. K.Haratian, A. Mohseni Meybodi, S .Z. Moradi, P. Vosough, (2010), Detection of high risk Human Papillomavirus DNA sequences in Head and Neck Squamous Cell Carcinoma in Fanconi anemia patients, The Cell (Yakhteh) Medical Journal, 12(1): 43-50
9. Sabbaghian M, Mohseni Meybodi A, Rahimian M, Sadighi Gilani MA, (2011), Occurrence of 47,X,i(X)(q10),Y Klinefelter variant with hypogonadotropic hypogonadism, Fertil Steril; 96(2):115-7.

10. Mozdarani H, Ashtiani KA, Mohseni Meybodi A., (2011), Evaluation of concentration and storage effects of mitomycin C in the diagnosis of Fanconi anemia among idiopathic aplastic anemia patients., *Indian J Hum Genet.*;17(3):145-51.
11. Mohseni Meybodi A, Mozdarani H, Moradi SZ, Akhoond MR. (2012), Importance of sperm glutathione treatment in ART. *J Assist Reprod Genet.* ; 29(7):625-30.
12. Totonchi M, Mohseni Meybodi A, Borjian Boroujeni P, Sedighi Gilani M, Almadani N, Gourabi H. (2012), Clinical data for 185 infertile Iranian men with Y-chromosome microdeletion. *J Assist Reprod Genet*; 29(8):847-53.
13. Haratian K, Mohseni Meybodi A, (2012), Evaluation of inhibitory effects of Berberin on apoptosis due to Measles virus strain AIK-HDC, *Alborz University Medical journal*, 1 (2):77-84 [Article in Persian]
14. Zari Moradi Sh, Mohseni Meybodi A, Gourabi H, Mozdarani H, Mansouri Z, (2013), Chromosome abnormalities and viability of vitrified 8 cell mouse embryos at presence of two different cryoprotectants at different storage durations, *The Cell journal (Yakhteh)*,14(4): 254-263.
15. Kalantari H, Madani T, Zari Moradi Sh, Mansouri Z, Almadani N, Gourabi H and , Mohseni Meybodi A,(2013), Cytogenetic analysis of 179 Iranian women with premature ovarian failure, *Gynecol Endocrinol*; 29(6): 588–591.
16. Asadpor U, Totonchi M, Sabbaghian M, Hoseinifar H, Akhound M. R, Zari Moradi Sh, Haratian K, Sadighi Gilani M. A, Gourabi H, Mohseni Meybodi A, (2013), Ubiquitin-specific protease (USP26) gene alterations associated with male infertility and recurrent pregnancy loss (RPL) in Iranian infertile patients, *J Assist Reprod Genet* ;30(7):923-31
17. Jangravi Z, Alikhani M, Arefnezhad B, Sharifi Tabar M, Taleahmad S, Karamzadeh R, Jadaliha M, Mousavi SA, Ahmadi Rastegar D, Parsamatini P, Vakilian H, Mirshahvaladi S, Sabbaghian M, Mohseni Meybodi A, Mirzaei M, Shahhoseini M, Ebrahimi M, Piryaei A, Moosavi-Movahedi AA, Haynes PA, Goodchild AK, Nasr-Esfahani MH, Jabbari E, Baharvand H, Sedighi Gilani MA, Gourabi H, Salekdeh GH.(2013), A Fresh Look at the Male-specific Region of the Human Y Chromosome. *J. Proteome Res.*, 12 (1): 6–22
18. Karimi H., Sabbaghian M., Haratian K., Farrahi F., Zari Moradi Sh., Vaziri Nasab H., Gourabi H., Mohseni Meybodi A, (2014), A rare case of a Klinefelter syndrome patient with quintuple mosaicism, diagnosed by GTG-banding and FISH: a case report, *Int J Fertil Steril*, 8(2): 221-224
19. Asia S., Vazirinasab H., Sabbaghian M., Kalantari H., Zari Moradi Sh., Gourabi H., Mohseni Meybodi A., (2014), A Rare De Novo Complex Chromosomal Rearrangement (CCR) Involving Four Chromosomes in An Oligo-asthenosperm Infertile Man: Case report, *Cell J*, 16(3): Serial Number: 63 [Epub ahead of print]
20. Kalantari H., Motamed N., Mohseni Meybodi A., Jabbari Arfaied A., Baharvand H., Gourabi H., (2014), The response of mouse embryonic stem cells to low doses of  $\gamma$ -radiation: Evidence for an adaptive response, *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*; 761:44-47

21. Kalantari H., Asia S., Vazirinasab H., Totonchi M., Mansouri Z., Zarei Moradi Sh., Haratian K., Gourabi H., Mohseni Meybodi A.,(2014), Delineating the association between isodicentric chromosome Y and infertility: A retrospective study; *Fertility & Sterility*; 101(4):1091-1096
22. Rostami Chayjan M., Sabbaghian M., Alikhani M., Sahraneshin Samani F., Salman Yazdi R., Almadani N., Mohseni Meybodi A., (2014), Relation of  $\beta$ -defensin 126 gene (DEFB126) alteration and protein expression with unexplained male infertility in Iranian population, *Arak Medical University Journal (AMUJ)*, 17(86): 31-40
23. Hassani M., Sabbaghian M., Mohseni Meybodi A., Hojati V., Sadeghi M., (2014), Genetic and protein analysis of betadefensin 126 and association with success rate of intrauterin insemination, *Journal of knowledge and health*, 10(2): 85-72
24. Haji Ebrahim Zargar H., Mohseni Meybodi A., Sabbaghian M., Shahhoseini M., Asadpor U., Sadighi Gilani MA., Chehrazi M., Farhangniya M., Shahzadeh Fazeli SA., (2015), Association Study of Two Polymorphisms in H2B.W Gene with Azoospermia and Severe Oligozoospermia in an Iranian Population; *International Journal of Fertility and Sterility*; [epub, ahead of print]
25. Farahmand K., Hashemi M., Totonchi M., Shahzadeh Fazeli SA., Kalantari H., Reyhani Sabet ., Gourabi H., Mohseni Maybodi A., (2015), Thrombophilic genes alterations as risk factor for recurrent pregnancy loss; *The Journal of Maternal-Fetal & Neonatal Medicine*; [Accepted Article]

## POSTER PRESENTATIONS

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1. Peptide Growth Factors and Prostate Cancer - The First Human Genetics Congress, Jul 2000, Shahrekord, Iran.
2. Gene Silencing - The First Human Genetics Congress, Jul 2000, Shahrekord, Iran.
3. Comparison of chromosomal abnormalities in human sperm of fertile and infertile Patients, 9th Annual Scientific Meeting of Middle East Fertility Society(MEFS), 2002 Cairo, Egypt.
4. Comparison of numerical chromosome abnormalities in sperm of normal and Oligospermic patients using zona free hamster oocyte method, EAAAFCA Congress, Mar 2004, Cairo, Egypt.
5. Comparison of Premature Chromosome Condensation (PCC) rate in sperm of Fertile and infertile men, 2nd Iranian congress of genetic disorders and disabilities, 2002, Tehran, Iran.
6. Buthionine suloximine activity profile in inhibiting the cytopathic effects and apoptosis induced by infection with AIK-HDC strain of Measles Virus, 1st Iranian congress of clinical Microbiology, May 2007, Shiraz, Iran.
7. Pericentric inversion of chromosome 9 Inv (9) (p11q13) and infertility, 9th world congress on controversies in obstetrics gynecology and infertility (COGI), Mar 2007, Barcelona, Spain.
8. Cytogenetic Analysis of Sperm Nucleous Components of Iranian Normal and Sub-Fertile Individuals Using Zona Free Hamster Oocytes, 9th world congress on controversies in obstetrics gynecology and infertility (COGI), Mar 2007, Barcelona, Spain.

9. Analysis of radiation induced chromosomal breakages in lymphocytes of breast cancer patients, The Breast Congress, Sep 2007, Torino, Italy.
10. DNA damage and repair kinetics in lymphocytes of Fanconi anemia patients induced by MMC and Gamma Irradiation as assessed by Comet and Comet FISH assay, The 23th International Fancone anemia symposium, Oct 2011, Barcelona, Spain.
11. Detection of high risk human papillomavirus DNA sequences in Hard and neck squamous cell carcinoma in Iranian men, The 23th International Fancone anemia symposium, Oct 2011, Barcelona, Spain.
12. Association between ubiquitin-specific protease USP26 gene variations and male infertility in Iranian men, ESHG 2012, 23-26 June, Nurnberg, Germany.
13. A de novo complex chromosomal rearrangement involving four chromosomes in an infertile male with oligospermia: Case report, ESHG 2012, 23-26 June, Nurnberg, Germany.
14. A rare variant of Klinefelter syndrome patient with a mosaic 48, XXXY/47, XXY/46, XX/45, X/46, XY karyotype studied by GTG-banding and fluorescence in situ hybridization: a case report, ESHG 2012, 23-26 June, Nurnberg, Germany.
15. Impact of different chromosome inversions on infertility, ESHG 2012, 23-26 June, Nurnberg, Germany.
16. Chromosomal outcome of 110 children born after assisted reproductive technology (ART), ESHG 2012, 23-26 June, Nurnberg, Germany.
17. Necessity of HPV genome screening in women due to its role in breast cancer, ESHG 2012, 23-26 June, Nurnberg, Germany.
18. FMR1 premutation survey; prominent ethiology for premature ovarian failure; 5th Yazd international congress and student award in reproductive medicine, Apr 2013, Yazd, Iran.
19. Inactivating FSH receptor mutations are not associated with premature ovarian failure in Iranian patients; 5th Yazd international congress and student award in reproductive medicine, Apr 2013, Yazd, Iran.
20. The prevalence of Chlamydia trachomatis infection in infertile men with abnormal sperm parameters referred to Royan Institute; 5th Yazd international congress and student award in reproductive medicine, Apr 2013, Yazd, Iran.
21. Examination of *FMR1* Gene Transcription and Protein Expression in Patients with Diminished Ovarian Reserve Referred to Royan institute, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran, Iran
22. Evaluation of *FMR1* Gene Regulatory Region for The Epigenetic Mark of H3K9 Acetylation in Blood Cells of Patients with Diminished Ovarian Reserve Referred to Royan Institute, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran, Iran
23. Genetic Variations of *FSH Receptor* Gene in Patients with Premature Ovarian Failure and Diminished Ovarian Reserve Referred to Royan Institute, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran, Iran
24. Association Study of *MICA\*008* Gene Polymorphism with Chlamydia Trachomatis Infection in Infertile

- Men Reffer to Royan Institute, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran,Iran
25. Chlamydia Trachomatis Can Increase Sperm DNA Fragmentation in Infertile Men, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran,Iran
  26. Analysis of *H2BFWT* Gene Alterations in Severe Oligospermic and Azoospermic Infertile Men Referred to Royan Institute, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran,Iran
  27. Comparison of the chromosomal stability of mouse embryonic stem cell in medium containing R2i (TGF-B and ERK1, 2inhibitors) by karyotyping, 9th International Congress on stem cell biology & technology, Sep 2013, Tehran,Iran
  28.  $\beta$  - defensin 126 can play an important role in male fertility, 6th national congress IRHRC reproductive and infertility updates, Jan 2013, Tehran,Iran
  29. Beta defensin 126 and its role in intra-uterine insemination (IUI) outcome, 6th national congress IRHRC reproductive and infertility updates, Jan 2013, Tehran,Iran
  30. Evaluation the genetic variation of  $\beta$ -defensin126 impact on ICSI & IVF outcome, 6th national congress IRHRC reproductive and infertility updates, Jan 2013, Tehran,Iran
  31. Analysis of the chromosomal stability and micronuclei formation of mouse embryonic stem cell in medium containing R2i (TGF-B and ERK1, 2 Inhibitor) and 2i (GSK-3 and ERK1,2 Inhibitors), 4th International Conference on Stem Cells and Cancer, Oct 2013, Mumbai, India
  32. MICA\*008 allele: A Genetic Predisposing Factor for Resistance against Chlamydia Trachomatis Infection, CACMID annual conference, Apr 2014, Victoria, Canada
  33. Rapid Detection of Rotavirus in Fecal Specimens by PCR during Acute Gastroenteritis among Children Younger than Six Years of Age , CACMID annual conference, Apr 2014, Victoria, Canada
  34. Type Distribution of Human Papillomaviruses in Non-familial Breast Cancer Patients in Iran, CACMID annual conference, Apr 2014, Victoria, Canada
  35. Study of chromosomal abnormalities and polymorphisms of *MTHFR* gene in patients with recurrent miscarriage referred to Royan Institute, ESHG 2014, Milan, Italy
  36. Follicle stimulating hormone receptor gene alterations and ovarian response to gonadotropins in Iranian infertile women, ESHG 2014, Milan, Italy
  37. No alteration in *PRLR* gene in Iranian women with idiopathic hyperprolactinemia, ESHG 2014, Milan, Italy
  38. Effect of oxidative stress on KDM5D expression in mature mouse testis, ESHG 2014, Milan, Italy
  39. Evaluation the chromosomal aberration impact on ovarian reserve: A retrospective clinical report, ESHG 2014, Milan, Italy
  40. Delineation of high-risk Human papillomavirus genotypes in Iranian breast cancer patients, ESHG

2014, Milan, Italy

41. Beta Defensin 126 and Its Role in Intra-Uterine Insemination (IUI) Outcome, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
42. Association of  $\beta$ -Defensin 126 Gene Alteration with Intra Cytoplasmic Sperm Injection(ICSI) and In Vitro Fertilization (IVF) Outcome in Unexplained Infertile Men, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
43. Evaluation of Genetic Alterations in Exons 3 and 28 of *SPEF2* Gene in Infertile Men with Short Tail sperm Compared to Control Subjects, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
44. *Androgen Receptor* Gene Expression in Azoospermic Men, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
45. Study of Chromosomal Alterations and Polymorphisms of *MTHFR*, *Factor V* and *Prothrombin* Genes in Patients with Recurrent Miscarriage Referred to Royan Institute, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
46. Haplotype Analysis of the *H2B.W* Gene in Severe Oligospermic and Azoospermic Infertile Men Referred to Royan Institute, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
47. Elucidation The Role of Chromosomal Aberrations in Ovarian Reserve: A Retrospective Clinical Report, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
48. Effect of Oxidative Stress on DNA Fragmentation Index in Sperm of Mature Mice, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran

## ORAL PRESENTATIONS

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1. A cytogenetic study of couples with recurrent spontaneous abortion and infertile patients with recurrent IVF/ICSI failure, 13th. World Congress of Gynecological Endocrinology, March, 2008, Florence, Italy.
2. The effect of glutathione on sperm PCC rate in normal and sub fertile men, 13th. World Congress of Gynecological Endocrinology, March 2008, Florence, Italy.
3. Detection of different kind of human papillomavirus in normal pregnancy and in pregnant women with insulin dependent diabetes mellitus, 15th. World Congress of Gynecological Endocrinology, March 2010, Florence, Italy.
4. The role of genetic alterations and polymorphisms in Ovarian Hyper Stimulation Syndrome (OHSS), First Royan OHSS symposium , Nov 2011, Tehran, Iran



5. Genetic aspects of male and female infertility, 7th nursing and midwifery symposium, Sep 2012, Tehran, Iran
6. Genetic evaluation of couples with recurrent spontaneous miscarriages: approaches for screening and detection, Royan Recurrent abortion symposium, Dec 2012, Tehran, Iran
7. Genetic etiology of Premature Ovarian Failure (POF), 8th nursing and midwifery symposium, Sep 2013, Tehran, Iran
8. The Necessity of Genetic Screening in Premature Ovarian Failure and Diminished Ovarian Reserved Patients, 14th International Royan Congress on Reproductive Biomedicine, Sep 2013, Tehran, Iran
9. Alteration in *B-Defensin 126* Gene is Associated with Unexplained Male Infertility and ART Outcomes, 15th Royan International Congress on Reproductive Biomedicine, Sept 2014, Tehran, Iran
10. Genetic analysis of exon 5 of AKAP3 gene in infertile men with short tail sperm defect, 16th World Congress on Human Reproduction, March 2015, Berlin, Germany

## COMPLEMENTARY ACTIVITIES

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2009-2013	Regular reviewer for various journals: The Cell Journal, Iranian Journal of Fertility and Sterility, Journal of assisted Reproduction and Genetics,...
2008-2013	Involved in different academic activities: seminars, workshops, courses, lectures and tutoring. Teaching in university as a lecturer for BSc. MSc. and PhD students in different fields of Genetics.

## RESEARCH ASSISTANTSHIP

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1. Experimental working on my M.Sc thesis” Chromosomal Abnormalities in Subfertile and Infertile men” under the supervision of Professor Hossein Mozdarani, Royan Institute.
2. Project Assistant in” Different methods of chromosomal analysis of the human sperm in Infertile men” under the supervision of Professor Hossein Mozdarani, Collaborating Project / Carolinsca Institute-Sweden and Royan Institute.
3. Project Assistant in “Human Infertility and chromosome 9 Inversions” under the Supervision of Professor Hossein Mozdarani, Royan Institute.
4. Project Assistant in “The Effect of antioxidants on the rate of PCC formation in human Sperm of infertile men” under the supervision of Professor Hossein Mozdarani, Royan Institute.
5. Project Assistant in” Study of the effect of different cryoprotectants on the post thaws Viability and chromosomal abnormalities in the 8-cell mouse embryos” under the Supervision of Professor Hossein Mozdarani, Royan Institute.

6. Experimental working on “FISH analysis for PGD”
7. Experimental working on “chromosomal analysis of human blood lymphocytes “
8. Experimental working on “Methods of preparation and analysis of the aborted and unfertilized oocytes after IVF or ICSI for P.G.D.”
9. Experimental working on my PhD thesis” The study of Genomic Instability of carriers and patients of Fanconi Anemia in G0 and Metaphases of cell cycle by Comet-FISH assay ” under the supervision of Professor Hossein Mozdarani, Tarbiat Modares University.

## LABORATORY & TECHNICAL SKILLS

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- Cell Culture (Cell line & Primary Culture)
- Cytogenetic Methods: Culture, Harvesting, Spreadings, Bandings of different cell types.
- Chromosomal Karyotyping
- FISH
- Comet Assay (Single Cell Gel electrophoresis)
- Embryo Freezing
- Molecular techniques such as DNA/RNA extraction, Primer design, PCR, SSCP, RFLP, Real Time PCR, Electrophoresis
- **Scientific & Statistical Software:** Cytovision, FASTA, BLAST, SPSS

## WORKSHOPS

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- Pre –implantation genetic diagnosis (PGD) : Royan Rproductive research Center, 2003
- Multiple Ligation Probe Hybridization (MLPA) : Tehran University of Medical Science, Medical Genetic Department, 2011
- Endnote: Royan Rproductive research Center, 2011
- Fluorescent In Situ Hybridization (FISH) : Royan Rproductive research Center, 2012
- Internal Audit and the principles of quality control and management system of food and medicine, medical genetics and medical diagnostic laboratories, Iranian Molecular and medicine network collaborating with TUV UK & I International company, Tehran, Iran, 2014
- Next Generation Sequencing (NGS) data analysis, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, 2014