

## ***CURRICULUM VITAE***

**5 August 2024**



**Name:** Mohammad Reza Sadeghi

**Date of Birth:** 21 March 1968

**Sex:** Male

**Marital Status:** Married

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### ***Position:***

- Chairman of Avicenna Research Institute
- Member of Embryology and Andrology Department, Avicenna Research Institute, ACECR, Tehran, Iran.
- Head of Embryology ward, Avicenna Infertility Clinic, ACECR, Tehran, Iran.
- Editor in Chief, Journal of Reproduction and Infertility (JRI), Avicenna Research Institute, ACECR, Tehran, Iran.

### ***Education:***

- Ph.D.in Clinical Biochemistry, Faculty of Medicine, Tehran University of Medical sciences, Tehran, Iran, 1995-2000.
- M.Sc.in Clinical Biochemistry, Faculty of Medicine, Tehran University of Medical sciences, Tehran, Iran, 1992-1994.
- Bachelor in Biology, Razi University, Kermanshah, Iran, 1987-1991.

## ***Memberships:***

- Member of experts commission for scientific evaluation of basic sciences faculty, ACECR, Tehran, Iran.
- Member of Stewardship Council and expanding research organizations of ACECR, Tehran, Iran
- Member of medical field committee affiliated to the Central commission for academic staff promotion, ACECR, Tehran, Iran.
- Member of the internal Commission for academic staff promotion. Avicenna Research Institute, ACECR, Tehran, Iran faculty.
- Chairman and member of the scientific council Avicenna Research Institute. ACECR, Tehran, Iran.
- Member and the secretary of health research bioethics committee, Avicenna Research Institute. ACECR, Tehran, Iran
- Member of Continuing Medical Education Council, Avicenna Research Institute.
- Member of technology committee, Avicenna biotechnology incubator Avicenna Research Institute, ACECR, Tehran, Iran.
- Member of steering committee on compilation of infertility services codex and standards, Ministry of Health and Medical Education.
- Member of Editorial board of International Journal of Hematology – oncology and Stemcell Research.
- Member of Editorial Board, Avicenna Journal of Medical Biotechnology (AJMB), Avicenna Research Institute, ACECR, Tehran, Iran.
- Society for Editors of Medical Journals, Deputy of Research and Technology, Ministry of Health and Medical Education.
- Chairman Morality Committee in Biomedical Research, Avicenna Research Institute, ACECR, Tehran, Iran.
- Member of Iranian Society for Reproductive Medicine, Ministry of Health and Medical Education.
- Board member of Iranian Society for Embryology and Reproductive biology, Ministry of Health and Medical Education.
- Member of the Publications Council, ACECR, Tehran, Iran.
- member of the scientific council ACECR, Tehran, Iran.
- Representative in the Coordination and Executive Committee of Biotechnology Headquarters.

## ***Experiences:***

### ***I-Clinical Activities:***

- Medical Diagnostic Laboratory (Kavosh Laboratory, Karaj, Iran 1995-1998)
- Medical Diagnostic Laboratory (Noor Laboratory, Tehran, Iran 1999-2001)
- Endocrinology Laboratory (Royan Institute, Tehran, Iran 1997-2000)
- Clinical Embryology (Avicenna Infertility Clinic, Tehran, Iran 2002-since)

### ***II-Teaching Experiences:***

- Molecular Mechanisms of Mammalian Gametogenesis & Fertilization, (Biochemistry MSc. Students).
- Tissue Culture and its Application in Reproduction, (Molecular Biology & Anatomy MSc. and PhD Students)
- Application of biochemical techniques in biomedical research, (Nutrition, MSc. and PhD. Students).
- Enzymology, Biochemistry of body fluids, Hormone Biochemistry, Tissues Biochemistry, Advance Biochemistry, ((Biochemistry MSc. Students).
- Clinical Biochemistry (Laboratory Technician Students).
- Basic Biochemistry (Medical Sciences, BS. Students).

## ***Accomplished Research (As Principal Investigator):***

1. A valuation of efficacy of GM-CSF in embryo culture for frizzed embryo culture for frizzed embryos in embryo development & pregnancy, Avicenna Research Institute (ARI), ACECR.2023
2. Relationship of sperm functions with its surface biomarkers involved in fertilization, Avicenna Research Institute (ARI), ACECR.2022
3. Production of MACS columns, Avicenna Research Institute (ARI), ACECR.2021
4. Separation of apoptotic sperm by molecular glass wool. Avicenna Research Institute (ARI), ACECR.2020
5. Evaluation of the ffect of supplementation with vitamin E and vitamin D on serum and follicular fluid oxidative and antioxidative stress factors, oocyte quality and ICSI outcomes in PCOS infertile women candidate for ICSI who referred To Infertility Clinic of Avicenna Research Center during 2014-2015. Avicenna Research Institute (ARI), ACECR.2020
6. Application and comparison of treatment approaches based on nuclear transfer techniques

- and Mitochondrial microinjection to increase the fertilizability of damaged oocyte and prevention from mitochondrial diseases . Avicenna Research Institute (ARI),ACECR. 2018
7. Relationship of sperm functions with its surface biomarkers involved in fertilization. Avicenna Research Institute (ARI), ACECR &Iran National Science Foundation. 2015-2018
  8. Evaluation of the ffect of supplementation with vitamin E and vitamin D on serum and follicular fluid oxidative and antioxidative stress factors, oocyte quality and ICSI outcomes in PCOS infertile women candidate for ICSI who referred To Infertility Clinic of Avicenna Research Center during 2014-2015.Avicenna Infertility Clinic.ACECR. 2014
  9. Effect of shorter abstinence on ICSI outcomes. Avicenna Research Institute (ARI),ACECR. 2012
  10. Metabolomics profiling of the human seminal plasma by GCMS: a non-invasive identification of spermatogenesis in men with non-obstructive azoospermia. Iranian Academic Center for Education, Culture & Research (ACECR). 2014-2017
  11. Investigating the luteinizing hormone (LH) receptor isoforms and it's relation to apoptosis in hippocampus of castrated rats.Avicenna Research Institute (ARI) and Iran University of Medical Sciences. 2008-2016
  12. Sperm selection according to molecular markers on spermatozoa surface. Iranian Academic Center for Education, Culture & Research (ACECR). 2011-2014
  13. Sperm washing of HIV infected semen in serodiscordant couples for IVF/ICSI. Avicenna Research Institute (ARI), ACECR. 2010-2014
  14. Study of metallothionein 1M gene exon 2 polymorphism and screening the metallothionein 1G polymorphisms in men with unknown infertility refered to Avicenna Infertility Clinic compared with healthy fertile men.Avicenna Research Institute (ARI) and Iran University of Medical Sciences. 2008-2014
  15. Analyzing defects in Phospholipid Hydroprooxide glutathione Peroxidase Gene and the relevant relationship with spermogram parameters as well as the oxidative stress status and sperm functional tests in oligoasthenotrazozoospermic men. Avicenna Research Institute (ARI) and Kermanshah University of Medical Sciences. 2005-2013
  16. Effect of Ubiquinone Supplementation on semen quality, antioxidant enzymes, oxidative stress and sperm DNA fragmentation in infertile men with idiopathic oligoasthenoteratozoospermia referring to the Avicenna Infertility Clinic. Avicenna Research Institute (ARI) and Iran University of Medical Sciences. 2009-2012
  17. Comparison of protamine deficiency in normozoospermic and Oligoasthenoteratozoospermic Infertile Men Attended to Fatemeh Zahra Babol and Avicenna Infertility Clinic, Avicenna Research Institute (ARI) and Babol Universityof Medical sciences. 2008-2012
  18. Polymorphism of P and M isoenzymes of glutathione S-transferase in infertile men attending Avicenna Infertility Clinic. . Iranian AcademicCenter for Education, Culture &Research (ACECR). 2008-2010
  19. Study the effects of thawing medium supplemented with vitamin E and glutathione on human sperm parameters, function and programmed cell death (apoptosis) after freezing.Avicenna Research Institute (ARI) and Biology Faculty, Tehran University. 2011-2014
  20. Detection of PERF15 gene mutations and its association with men infertility. Avicenna Research

Institute (ARI) and Shahid-Beheshti Medical Sciences University. 2010-2013

21. Identification of suitable biochemical markers for spermatogenesis in seminal plasma of azoospermic men. Avicenna Research Institute (ARI), ACECR. 2008-2013
22. Comparative study of ICSI outcome using ejaculated sperm and testicular sperm in cryptozoospermic men. Avicenna Research Institute (ARI), ACECR. 2009-2012
23. A survey on organizational culture and knowledge management in medical research centers affiliated to ministry of Health and education (pilot study). National Institute of Health Research.
24. Analysis of azoospermia factors (AZF) microdeletion in men with idiopathic non-obstructive azoospermia and oligospermia. Avicenna Research Institute (ARI), ACECR. 2009-2011
25. Fetal sex determination using nested PCR and real-time PCR analysis of fetal DNA in maternal plasma of pregnant women during 7th-10th weeks of gestation. Avicenna Research Institute (ARI), ACECR. 2009-2011
26. Effect of folic acid and zinc sulfate supplementation on sperm function tests in infertile male. Iranian Academic Center for Education, Culture & Research (ACECR). 2006-2011
27. Identification of molecular markers for spermatogenesis in seminal plasma of non-obstructive azoospermic men. Avicenna Research Institute (ARI), ACECR. 2007-2009
28. Designing of an ELISA method for quantitative measurement of inhibin B. Iranian Academic Center for Education, Culture & Research (ACECR). 2004-2009
29. A comparison study of serum lipid levels in monozygotic and dizygotic twins with and without polycystic ovarian syndrome, Tehran, 1384-85. Avicenna Research Institute (ARI) and Iran University of Medical Sciences. 2007-2008
30. Study the relationship between sperm function test and outcome of assisted reproductive techniques in couples attending Avicenna Research Institute. Iranian Academic Center for Education, Culture & Research (ACECR). 2006-2008
31. The effects of Ruta Graveolens water extract on human sperm cell characteristic and function in vitro and determination of effective fraction. Tehran University of Medical Sciences & Avicenna Research Institute (ARI), ACECR. 2006-2008
32. The comparison between two methods of cryopreservation, vitrification and vapour phase on motility, DNA fragmentation and autonomous acrosome reaction of human spermatozoa. Avicenna Research Institute (ARI), ACECR. 2005-2007
33. Design an immuno fluorescent method for detection an apoptotic spermatozoa. Iranian Academic Center for Education, Culture & Research (ACECR). 2005-2006
34. Twin Registry in Iran. WHO, EMRO, Cairo, Egypt. 2003-2005
35. Designing of ELISA kit for measurement of pregnancy associated Plasma Protein-A (PAPP-A). Avicenna Research Institute (ARI), ACECR. 2003-2004
36. Designing an ELISA method for quantitative measurement of antisperm antibody (ASA) in serum, follicular fluid, cervical mucus and seminal fluid. National Research Center of Medical Sciences (NRCMS). 2001-2004

### ***Researchin Progress (As Principal Investigator):***

1. Oocyte quality and embryo morphokinetic parameters using time-lapse microscopy in patients referred with recurrent miscarriages for aneuploidy diagnosis. Avicenna Research Institute (ARI), ACECR.2024
2. Comparison of ICSI results by testicular versus ejaculated frozen-thawed spermatozoa in infertile men with severe oligozoospermia, Avicenna Research Institute (ARI), ACECR.2023
3. Comparison of two methods of sperm preparation swim up and density gradient centrifugation on development and embryonic kinetic parameters using time lapse microscopy Avicenna Research Institute (ARI), ACECR.2023
4. Evaluation of Circulating free DNA (cfDNA) of seminal plasma as a biomarker for assessment of sperm fertility potential and prognosis of ART outcomes. Avicenna Research Institute (ARI), ACECR.2021
5. A Legal Comparative and Fiqhi Study on Filiality of Children Born through Assisted Reproductive Technology with the Intervention of a Third Party. Avicenna Research Institute (ARI), ACECR.2020.
6. Design and fabrication of microfluidic chips for sperm separation during assisted reproductive techniques . Avicenna Research Institute (ARI), ACECR.2020
7. 990- Production of vitrified cow embryo with the aim of genetic improvement of dairy and beef cow breeds. Avicenna Research Institute (ARI), ACECR.2019
8. 1003-Evaluating the effect of sequential day3/ day 5transfer on improve pregnancy rate in patients with repeated implantation failure .Avicenna Research Institute (ARI).2020
9. Effectiveness evaluation of intra-ovarian injection of autologous menstrual blood stem cells in fertility potential of patients with poor ovarian response: a controlled clinical trial study. Avicenna Research Institute (ARI).2020
10. Evaluation of genomics & metabolomics profiles of euploid and aneuploid embryos at Preimplantation genetic screening (PGS) program. Avicenna Research Institute (ARI), ACECR. 2018
11. comparison between administration of FSH plus HCG versus HCG alone for triggering in the result of ICSI .Avicenna Infertility Clinic.ACECR2018
12. GnRH agonist trigger and GnRH for luteal phase support in OHSS risk patients- The exogenous progesterone free luteal phase .Avicenna Infertility Clinic.ACECR2018
13. Antibody production against SALL4 as novel stem cell to detect testicular cancer in serum and semen. Avicenna Research Institute (ARI), ACECR. 2018
14. Separation of apoptotic sperm by molecular glass wool. Avicenna Research Institute (ARI), ACECR. 2018
15. Effects of Antioxidant Supplementation (Vitamin E+ Folic Acid+ Selenium) on Sperm

Parameters, Sperm DNA Fragmentation, TAC and Seminal Plasma Metabolome in Asthenospermic Patients. Avicenna Research Institute (ARI), ACECR. 2016

16. Understanding the effects of oxidative stress, on structure and functions of human sperm, at genome, proteome and metabolome level. Avicenna Research Institute (ARI), ACECR. 2015
17. A valuation of efficacy of GM-CSF in embryo culture for frizzed embryo culture for frizzed embryos in embryo development & pregnancy. Avicenna Infertility Clinic. ACECR. 2014
18. Assessment of the effect of intrauterine injection of human chorionic gonadotropin (HCG) before embryo transfer on the implantation and pregnancy rates in the intracytoplasmic sperm injection (ICSI) method among patients who referred to infertility clinic of the Avicenna research center during 2013-2014. Avicenna Infertility Clinic. ACECR. 2013 بایگانی

### ***Publications :***

1. Niknam Lakpour, **Mohammad Reza Sadeghi**, Naser Jafarzadeh, Ralf Henkel, Azadeh Hajiparvaneh , Zohreh Fathi , Roya Ghods , Kambiz Gilany , Zahra Madjd, Metabolic Fingerprinting of Serum and Seminal Plasma of Testicular Cancer Patients Using Raman Spectroscopy: A Pilot Study, Journal of Reproduction and Infertility, January 2024
2. Simin Zafardoust, Somaieh Kazemnejad, Mina Fathi-Kazerooni, Maryam Darzi, **Mohammad Reza Sadeghi**, Ali Sadeghi Tabar, Zahra Sehat. Stem Cell Research & Therapy. Stem Cell Research & Therapy, November
3. Simin Zafardoust, **Mohammad Reza Sadeghi** , Farnaz Fatemi, Sheyda Jouhari , Afsaneh Shahbakhsh, Azam Mohammad Akbari, Zohre Fathi, Zahra Sehat. Narges Maleki, Evaluating the efficacy of granulocyte-macrophage colony-stimulating factor in improving implantation rates in frozen embryo transfer cycles: a blind randomized-controlled study, Caspian Journal of Reproductive Medicine. June 2023
4. **Mohammad Reza Sadeghi**, Technical Problems and Ethical Concerns Regarding Gene Editing in Human Germlines and Embryos, August 2023, Journal of Reproduction and Infertility
5. **Mohammad Reza Sadeghi**, The Culprit of Increased Complaints in IVF Clinics: New Technologies or the Growing IVF Popularity? March 2023, Journal of Reproduction and Infertility
3. **Mohammad Reza Sadeghi**, Realities and Hopes in Social Freezing: A Developing Practice to Stop Reproductive Ageing, Jan 2023, Journal of Reproduction and Infertility
4. **Mohammad Reza Sadeghi** , Niknam Lakpour, Roya Ghods, Mohammad Reza Sadeghi, Mohammad Mehdi Ranjbar, Maryam Abolhasani, Jafar Kiani, Kioomars Saliminejad, Leila Balay-Goli, Ali Ahmad Bayat, Fahimeh Souri, Zahra Madjd, Production and characterization of a new specific monoclonal antibody against A-isoform of SALL4: A novel emerging testicular cancer marker, Andrologia, December 2022
6. Nicholas A Deebel, Haleh Soltanghorae, Aaron William Bradshaw, Omar Abdelaal, Karl Reynolds, Stuart Howards, Stanley Kogan, **Mohammad Reza Sadeghi**, Anthony Atala, Kimberly Stogner-Underwood, Hooman Sadri-Ardekani , Morphometric and

immunohistochemical analysis as a method to identify undifferentiated spermatogonial cells in adult subjects with Klinefelter syndrome: a cohort study September 2022,

7. 1. **Mohammad Reza Sadeghi**, Health Problems and Financial Burdens in Mislabeling IVF Failures as RIF, Journal of Reproduction & Infertility, October 2022
8. 2. **Mohammad Reza Sadeghi** Will Artificial Intelligence Change the Future of IVF? Journal of Reproduction & Infertility, July 2022
9. Soheila Ansari-pour 1 Nayereh Tamizi 1 **Mohammad Reza Sadeghi** 2 Azam Mohammad-Akbari. Comparison of triggering of final oocyte maturation with follicle stimulating hormone plus human chorionic gonadotropin versus hCG alone in normoresponder women undergoing intracytoplasmic sperm injection, a randomized clinical trial. International Journal of Fertility & Sterility July 2022
10. Mohammad Reza Sadeghi The Disputable Discourse on Accuracy and Effectiveness of PGT-A in Light of Advancements in Genetic Tools. Journal of Reproduction & Infertility
11. Mohammad Reza Sadeghi. The Possibility of Increasing Oocyte Capacity to Repair Sperm DNA Fragmentation. Journal of Reproduction & Infertility. 2021 April .
12. Mohammad Reza Sadeghi . Is Male Reproductive System More Vulnerable to SARS-CoV-2 Than Female's? Journal of Reproduction & Infertility 2021 Jan
13. Mozhgan Raigani, Niknam Lakpour, Meysam Soleimani, Behrooz Johari, Mohammad Reza Sadeghi A Association of MTHFR C677T and MTRR A66G Gene Polymorphisms with Iranian Male Infertility and Its Effect on Seminal Folate and Vitamin B12 .International Journal of Fertility and Sterility 2021 Jan 2021/01/01
14. MR Sadeghi. Implications of Assisted Human Reproduction During Coronavirus Disease 2019 (COVID-19) Pandemic. Journal of Reproduction and Infertility. 2020 July; 21(3): 155-156
15. Sara Darbandi, Mahsa Darbandi, Ashok Agarwal, Hamid Reza Khorram Khorshid, Mohammad Reza Sadeghi, Sandro C Esteves, Pallav Sengupta, Sulagna Dutta, Zohreh Fathi, Hojjat Zeraati, Mohammad Mehdi Akhondi. Comparing four laboratory three-parent techniques to construct human aged non-surrounded nucleolus germinal vesicle oocytes: A case-control study. International Journal of Reproductive BioMedicine. 2020 jun; 18(6): 425-438
16. Mahnaz Heidari, Mahsa Darbandi, Sara Darbandi, Mohammad Reza Sadeghi .Comparing the different methods of sperm chromatin assessment concerning ART outcomes .2020. May 2020; 1(0): 62-69.
17. Ghazaleh Eslamian, Naser Amirjannati, Nazanin Noori, Mohammad-Reza Sadeghi, Azita Hekmatdoost .Effects of coadministration of DHA and vitamin E on spermatogram, seminal oxidative stress, and sperm phospholipids in asthenozoospermic men: a randomized controlled trial. 2020 Sep 1; 112(3): 707-719
18. Nasser Shakhssalim, Mohamad Reza Sadeghi, Mohammad Mehdi Akhondi, Hamed Akhavizadegan .Testis biopsy in absolute head teratospermia: Is it a logical option?. Urologia Journal. 2020; may, 87(2): 80-82
19. MR Sadeghi .How Can the Implementation of Ethical Norms Be Guaranteed in Biomedical Studies? .Journal of Reproduction & Infertility. 2020 April; 21(2): 69-69



20. MR Sadeghi. A New Perspective for the Future of Male Infertility Treatment and Research. *Journal of Reproduction and Infertility*. 2020 Jan; 21(1): 1-2
21. MR Sadeghi. Do We Have the Right to Challenge the Rules of Nature Using Science and Technology Tools? *Journal of Reproduction and Infertility*. 2019 Oct; 20(4): 199-200
22. A Vatannejad , H Tavalani , M R Sadeghi, M Karimi , N Lakpour , S Amanpour , M Shabani Nashtaei , M Doosti .Evaluation of the NOX5 protein expression and oxidative stress in sperm from asthenozoospermic men compared to normozoospermic men. *Journal of endocrinological investigation*. 2019 Oct;42(10):1181-1189
23. Darbandi M, Darbandi S, Agarwal A, Baskaran S, Dutta S, Sengupta P, Khorram Khorshid HR, Esteves S, Gilany K, Hedayati M, Nobakht F, Akhondi MM, Lakpour N, **Sadeghi MR**. Reactive oxygen species-induced alterations in H19-Igf2 methylation patterns, seminal plasma metabolites, and semen quality *J Assist Reprod Genet*. 2019 Feb;36(2):241-253
24. Darbandi S, Darbandi M, Khorshid HRK, **Sadeghi MR**, Heidari M, Cheshmi G, Akhondi MM .The effect of paternal age on semen quality and fertilization outcome in men with normal sperm DNA compaction, reactive oxygen species, and total antioxidant capacity levels. *Turk J Urol*. 2019 Feb 5
25. Heidari M, Darbandi S, Darbandi M, Akhondi MM, **Sadeghi MR**. Fibronectin as a new biomarker for human sperm selection in assisted reproductive technology. *Turk J Urol*. 2019 Jan 22;45(2):83-90
26. Darbandi M, Darbandi S, Agarwal A, Baskaran S, Dutta S, Sengupta P, Khorram Khorshid HR, Esteves S, Gilany K, Hedayati M, Nobakht F, Akhondi MM, Lakpour N, **Sadeghi MR** .Reactive oxygen species-induced alterations in H19-Igf2 methylation patterns, seminal plasma metabolites, and semen quality. *J Assist Reprod Genet*. 2019 Feb;36(2):241-253
27. Darbandi M, Darbandi S, Agarwal A, Baskaran S, Sengupta P, Dutta S, Mokarram P, Saliminejad K, **Sadeghi MR**. Oxidative stress-induced alterations in seminal plasma antioxidants: Is there any association with keap1 gene methylation in human spermatozoa? *Andrologia*. 2019 Feb;51(1):e13159
28. Heydari M, Darbandi S, Darbandi M, Akhondi MM, **Sadeghi MR**. Assessment of Fibronectin Protein as a New Biomarker for Human Sperm Selection in ART. *Turkish Journal of Urology*. In Press
29. **Sadeghi MR**, Akhondi M.M, Zahraei M. Identification of common proteins between epididymal epithelium secretions and surface of rat spermatozoa. *Journal of Research in Medical Sciences*. 2001; 24(4): 305-318
30. Heydari M, Lakpour N, Darbandi M, Darbandi S, Shani S, Goharbaksh L, Akhondi MM, **Sadeghi MR**, Cheshmi Gh. Upstream Or Swim Up Processing Technique: Which One Is More Effective To Select Human Sperm With High Chromatin Integrity. *International Journal of Reproductive BioMedicine*. 2018; 16(7): 463-468
31. Heydari M, Darbandi S, Darbandi M, Lakpour N, Fathi Z, Zarnani AH, Zeraaty H, Akhondi MM, **Sadeghi MR**. Assessing the potential of HSPA2 and ADAM2 as two biomarkers for human sperm selection . *Human Fertility*. 2018; 22(1): 1-11
32. Heydari M, Darbandi S, Darbandi M, AmirJanati N, Bozorgmehr M, Zeraaty H, Akhondi MM, **Sadeghi MR**. Evaluating the Potential of Three Sperm Surface Antigens as Egg-

adhesion Biomarkers for Human Sperm Selection. *Journal of Reproduction and Infertility*. 2018; 19(4): 203-210

33. Darbandi M, Darbandi S, Khorshid HRK, Akhondi MM, Mokarram P, **Sadeghi MR**. A simple, rapid and economic manual method for human sperm DNA extraction in genetic and epigenetic studies . *Middle East Fertility Society Journal*. 2018; 23(3): 216-2019
34. Rafati M, Akhondi M.M, **Sadeghi MR**, Tara Z, Ghaffari S.R. Preimplantation High-Resolution HLA Sequencing Using Next Generation Sequencing. *Biology of Blood and Marrow Transplantation*. 2018; 24(8): 1575-1580
35. Gilany K, Jafarzadeh N, Mani-Varnosfaderani A, Minai-Tehrani A, **Sadeghi MR**, Darbandi M, Darbandi S, Amini M, Arjmand B, Pahlevanzadeh Zh. Metabolic Fingerprinting of Seminal Plasma from Non-obstructive Azoospermia Patients: Positive Versus Negative Sperm Retrieval. *Journal of Reproduction & Infertility*. 2018; 19(2): 109-114
36. Jafarian A, Lakpour N, **Sadeghi MR**, Salehkhoush S, Akhondi MM. Transplantation of Spermatogonial Stem Cells Suspension into Rete Testis of Azoospermia Mouse Model. *Urology journal*. 2018 Jan 23; 15(1): 40-47.
37. Eslamian G, Amirjannati N, Rashidkhani B, **Sadeghi MR**, Hekmatdoost A. Nutrient patterns and asthenozoospermia: a case-control study. *Andrologia*. 2017; 49(3): 1-6
38. Darbandi S, Darbandi M, Khorram Khorshid HR, **Sadeghi MR**. Yoga Can Improve Assisted Reproduction Technology Outcomes in Couples With Infertility. *Alternative Therapies in Health & Medicine*. 2017; 23 (7): 82-87
39. Darbandi S, Darbandi M, Khorshid HRK, **Sadeghi MR**, Agarwal A, Sengupta P, Al-Hasani S, Akhondi MM. Ooplasmic transfer in human oocytes: efficacy and concerns in assisted reproduction. *Reproductive Biology and Endocrinology*. 2017; 15 (1): 77-88
40. Darbandi S, Darbandi M, Khorram khorshid Hr, Shirazi A, **Sadeghi MR**, Agarwal A, Al-Hasani S, Naderi Mm, ayaz , Akhondi Mm. Reconstruction of mammalian oocytes by germinal vesicle transfer: A systematic review. *International Journal of Reproductive BioMedicine*. 2017; 15(10): 601-612
41. Darbandi M, Darbandi S, Agarwal A, Henkle R, **Sadeghi MR**. The Effects of Exposure to Low Frequency Electromagnetic Fields on Male Fertility. *Alternative Therapies in Health & Medicine*. 2017; 23 (7): 25-30
42. Gilani K, Mani Varnosfaderani A, Minaie tehrani A, Mirzajani F, Ghasempour A, **Sadeghi MR**, Amini , Rezadoost H. Untargeted Metabolomic Profiling Of Seminal Plasma In Nonobstructive Azoospermia Men: A Noninvasive Detection Of Spermatogenesis. *Biomedical Chromatography*. 2017; 31(8): 1-10
43. Zafardoust S, Akhondi MM, , **Sadeghi MR**, Mohammadzadeh A, Karimi A, Jouhari Sh, Ansari-pour S. Efficacy of Intrauterine Injection of Granulocyte Colony Stimulating Factor (G-CSF) on Treatment of Unexplained Recurrent Miscarriage: A Pilot RCT Study. *Journal of reproduction & infertility*. 2017; 18(4): 379–385

44. Fatemi F, Mohammadzadeh A, **Sadeghi MR**, Akhondi Mm, Mohammadmoradi SH, Kamali K, Lakpour N, Johari Sh, Zafardust S, Mokhtar S, Giahi L. Role Of Vitamin E And D3 Supplementation In Intra-Cytoplasmic Sperm Injection Outcomes Of Women With Polycystic Ovarian Syndrome: A Double Blinded Randomized Placebo-Controlled Trial. *Clinical Nutrition ESPEN*. 2017; 18(0): 23-30
45. Vatannejad A, Tavalani H, **Sadeghi MR**, Amanpour S, Shaporzadeh S, Dosti M. Evaluation of ROS-TAC Score and DNA Damage in Fertile Normozoospermic and Infertile Asthenozoospermic Males. *Urology Journal*. 2017; 14(1): 2973-2978
46. Vahid F, Shivappa N, Hekmatdoost A, Hebert JR, Davoodi SH, **Sadeghi MR**. Association between Maternal Dietary Inflammatory Index (DII) and abortion in Iranian women and validation of DII with serum concentration of inflammatory factors: case-control study. *Applied Physiology, Nutrition, and Metabolism*. 2017; 42 (5): 511-516
47. Darbandi S, Darbandi M, Khorram khorshid H.R, **Sadeghi MR**, Al-Hasani S, Agarwal A, Shirazi A, Heidari M, Akhondi MM. Experimental strategies towards increasing intracellular mitochondrial activity in oocytes: A systematic review. *Mitochondrion*. 2016; 30: 8–17
48. Zarei M, Fakhr SH, Tabei MB, Javanbakht MH, Derakhshanian H, Farahbakhsh Farsi P, **Sadeghi MR**, Mostafavi E, Djalali M. Effects of vitamin A, C and E, or omega-3 fatty acid supplementation on the level of paraoxonase and arylesterase activity in streptozotocin-induced diabetic rats: an investigation of activities in plasma, and heart and liver homogenates. *Singapore Medical Journal*. 2016; 57(3): 153-6
49. Darbandi S, Darbandi M, Mokrem P, **Sadeghi MR**, Owji AA, Khorram khorshid Hr, Zhao B, Heidari M. The Acupuncture-Affected Gene Expressions and Epigenetic Modifications in Oxidative Stress–Associated Diseases. *Medical Acupuncture*. 2016; 28(1):16-27
50. Giahi L, Mohammadmoradi S, Javidan A, **Sadeghi MR**. Nutritional modifications in male infertility: a systematic review covering 2 decades. *Nutrition Reviews*. 2016; 74(2): 118-30
51. Eslamian Gh, Amirjannati N, Rashidkhani B **Sadeghi MR**, Baghestani AR, Hekmatdoost A. Adherence to the Western Pattern Is Potentially an Unfavorable Indicator of Asthenozoospermia Risk: A Case-Control Study. *Journal of the American College of Nutrition* 2016; 35(1): 50-58
52. Hekmatdoost A, Vahid F, Yari Z, **Sadeghi MR**, Eini-Zinab H, Lakpour N, Arefi S. Methyltetrahydrofolate vs Folic Acid Supplementation in Idiopathic Recurrent Miscarriage with Respect to Methylenetetrahydrofolate Reductase C677T and A1298C Polymorphisms: A Randomized Controlled Trial. *PLoS One*. Published online 2015; 10(12): 1-12
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## **II. Books:**

1. Akhondi MA, **Sadeghi MR**. The necessity of assisted reproductive technology (ART) in human reproduction. *Modern Human Reproductive Techniques from the View of Jurisprudence & Law (Book chapter)*. 2000; 1, 18-35.
2. Akhondi MM, Amir Janati N, Hedari M, Sadeghi MR, Sadri-Ardakani H, Gaffari M, Mohammadzadeh M, Maleki H. Assisted Reproduction Laboratory. Avicenna Research Institute (ACECR). 2005.
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## ***Abstracts (Journals & Conference):***

### ***International Presentation:***

1. Darbandi M, Darbandi S, Agarwal A, Esteves S, Sengupta P, Khoramkhorshid H, Akhondi MM, Alhasani S, **Sadeghi MR**. Effect of reactive oxygen species on the methylation status of human sperm imprinting genes, seminal plasma metabolites, and semen parameters. European Society of Human Reproduction and Embryology (ESHRE). 1 to 4 July 2018. Barcelona, Spain
2. Heidari M, Darbandi M, Darbandi S, **Sadeghi MR**. Fibronectin and human sperm selection. European Society of Human Reproduction and Embryology (ESHRE). 1- 4 July 2018. Barcelona, Spain
3. Savadi shirazi E, Edalat khah H, Heidari-vala H, Pilatz A, Akhondi MM, **Sadeghi MR**. Considerable correlations between sperm chromatin integrity and sperm specific mRNA transcripts (PRM1, PRM2 & TNP2) in male partner of couples with recurrent pregnancy loss. The paper presented at the The 8th Congress of the European Academy of Andrology. 15-17 October 2014, Barcelona, Spain .(poster)
4. Maleki H, Kamali K, Tayebi M, **Sadeghi MR**, Babania A. The project management profile based on PMBOK: A Medical research centre (case study). 5th Annual American Business Research Conference. 6-7 June 2013, New York, USA .(Oral)
5. Torabi F, Heidari Vala H, Akhondi MM, Lakpour N, Zarnani AH, Mahmoudian J, Mahmoudi AR, **Sadeghi MR**. Fibronectin on the Surface of Human Spermatozoa: A New Marker of Sperm Quality. 7TH European Congress of Andrology (ECA). 28 November-1 December 2012. Berlin, Germany.(poster)
6. Meyfour A, Lakpour N, Akhondi MM, **Sadeghi MR**. Proteomic Analysis of Seminal Plasma from Normozoospermic and non-obstructive Azoospermic (NOA) Men to Discover New Markers. 7TH European Congress of Andrology (ECA). 28 November-1 December 2012. Berlin, Germany.(poster)
7. Torabi F, Safarpour E, Lakpour N, Akhondi MA, Amini N, Zarnani AH, Heidari-Vala H, **Sadeghi MR**. Production and characterization of polyclonal antibody against fibronectin for its detection on the surface of human spermatozoa. Molecular Immunology & Immunogenetics congress (MIMIC2012), 27-29 April 2012. Antalya, Turkey. (Oral)
8. Maleki H, Monavarian A, Rafinejad J, Biglarian A, **Sadeghi MR**, Olia P. The organizational culture profile based on Denison model, A case study: Medical research centers. The Advances in Business-Related Scientific Research Conference (ABSRC), 28-30 March 2012. Venice, Italy. (Oral)
9. Maleki H, Monavarian A, Rafinejad J, Biglarian A, **Sadeghi MR**, Olia P. The organizational culture profile of medical research centers, based on Denison organizational culture model. World Business, Economics and Finance Conference. 26- 27 September 2011. Bangkok, Thailand. (Oral)
10. Najarzadeh A, **Sadeghi MR**, Shidfar F, Vafa MR, Amirjannati N, Gohari MR, Akhondi MM. Effect of coenzyme Q10 supplementation on semen parameters and oxidative stress in infertile men. 7th Asia Pacific conference on clinical nutrition (7th APCCN 2011). 5-8 June 2011. Bangkok, Thailand. (Oral)
11. Savadi shirazi E, **Sadeghi MR**, Talebi S, Edalatkhah H, Maleki H, Akhondi MM. Male infertility and effects of genetic feature of sperm morphology on it. 1st World Congress of Obstetrics, Gynaecology and Andrology. 19-22 March 2011. London. (Poster)

12. Savadi shirazi E, **Sadeghi MR**, Edalatkhah H, Zarei S, Akhondi MM. Andrology smoking has relation with sperm – maturation via the change of mRNA copy numbers for spermiogenesis specific genes (protamins). 1st World Congress of Obstetrics, Gynaecology and Andrology. 19-22 March 2011. London. (Poster)
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14. Heidari M, Maleki H, Tayebi M, Akhondi MM, **Sadeghi MR**, Khondzadeh S, Ramezanzadeh F. Knowledge, Attitude and Performance of couples Referred to an Infertility Treatment Centers of Tehran toward use of Herbal Medicine. 14th world congress of Gynecological Endocrinology. 4-7 March 2010., Firenze, Italy. (Poster)
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22. **Sadeghi MR**, Hodjat M, Akhondi MA, Hossaini Jadda H, Arefi S, Amirjannati N, Bolurzadeh M. Comparison of chromatin status and fertilizing ability between epididymal and ejaculated human spermatozoa. The proceedings of the Third Asia-Pacific Forum on Andrology (3APFA). 10-13 October, 2009. Nanjing, China. (Oral)
23. M. Ardekani A, Jabbari S, **Sadeghi MR**, Amirjanati N, Habibi AE, Lakpour N, Hodjat M, Akhondi MM. Phosphoproteomic pattern in normozoospermic and infertile teratozoospermic men. HUPO 2009 World Congress. 26-30 September, 2009. Toronto, Canada. (Poster)

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28. Darvishnia H, **Sadeghi MR**, Shamse Lahijani M, Mobaraki M, Akhondi MM. Effects of vitrification on human sperm DNA integrity, using cytochemical tests. 9thworld Congress in Controversies in Obstetrics Gynecology and Infertility. 22-25 March, 2007, Spain, Barselona.(Poster)
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34. Pacey AA, Safarpour E, Parivar K, **Sadeghi MR**, Akhondi MM, Jeddi-Tehrani M, Shokri F. The study of effects of growth factors of TGF-beta-2 and BMP-2 on differentiation of mouse embryonic stem cells into cardiomyocyte. Joint Spring Meeting of the Genetics Society and the Societies of the Cell and Developmental Biology. 29<sup>th</sup> March- 1<sup>st</sup> Apr, 2007. Heriot – Watt University, Edinburgh. (Poster)
35. Naghibi Harat Zh, **Sadeghi MR**, Sadeghipour HR, Kamali Nejad M, Eshraghian MR. Effect of Ruta graveolens L. aqueous extract on human sperm motility: A promising female and male Contraceptive. 7th Congress of the European Society of Gynecology, 10-13 October 2007, Paris, France.(Poster)
36. Aarabi M, Soltan Ghoraee H, Amir Jannati N, **Sadeghi MR**, Sadri Ardakani H, Akhondi MM, Modarresi MH. Testicular expression of testis specific gene A10 (TSGA10) mRNA in patients with non-obstructive azoospermia. 7th Congress of the European Society of Gynecology, 10-13 October

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38. Hodjat M, **Sadeghi MR**, Akhondi MM, Mobaraki M. Increased sperm ubiquitination correlate abnormal chromatin integrity. 7th Congress of the European Society of Gynecology, 10-13 October 2007, Paris, France.(Poster)
39. Nouri M,Ghaffari Novin M,Heidari M,**Sadeghi MR**,Akhondi M. Study of attachment and invasion of human embryo in vitro.Indo –French Congress on Gynecologic Endoscopy, Infertility and Ultrasound. 23<sup>rd</sup> -26<sup>th</sup> Nov, 2006.Varanasi, India. (Poster)
40. Arefi S, AkhondiMM, Zonobi M,Mohammadzadeh A, Ghaffari M, Tokhmechi R, **Sadeghi MR**.The value of hysteroscopy in patients having failed VF/ICSI transfer cycles. XVIII FIGO World Congress of Gynecology and Obstetrics 5<sup>th</sup>-10<sup>th</sup> Nov, 2006.Kuala Lumpur, Malaysia. (Oral)
41. Sadri Ardekani H, Akhoondi MA, Talebian A, Bolourzadeh M, **Sadeghi MR**. The assessment and comparison of different media and methods of sperm cryopreservation. 14<sup>th</sup> European Workshop on Molecular and Cellular Endocrinology of the Testis.22-26 Apr, 2006.Bad Aibling, Bavaria, Germany. (Oral)
42. Modarressi MH, Saliminejad K, Aarabi M, Sheidaei M, Soltanghorae H, **Sadeghi MR**,Amir jannati N. Expression analysis of DAZ (deleted in azoospermia) genes in non- obstructive azoospermic patients.22<sup>th</sup> Annual meeting of European Society of Human Reproduction and Embryology (ESHRE). 18-21 Jun, 2006.Prague,Czech Republic. (Oral)
43. Darvishnia M, **Sadeghi MR**, Shams lahijani M, Akhondi MM, Hodjat M. Effects of different cryopreservation methods and cryoprotectants on human spermatozoa.22<sup>nd</sup> Annual meeting of European Society of Human Reproduction and Embryology (ESHRE). 18-21 Jun, 2006.Prague,Czech Republic. (Poster)
44. **Sadeghi MR**, Hodjat M, Akhondi MM, Ghaffari Novin M. increased sperm ubiquitination correlate with routine semen analysis parameters. 22<sup>th</sup> Annual meeting of European Society of Human Reproduction and Embryology (ESHRE). 18-21 Jun, 2006.Prague,Czech Republic. (Poster)
45. Hodjat M, Talebian A, GhodsR, Shabani A,Akhondi MM,**Sadeghi MR**. Increased sperm ubiquitination correlate with routine semen analysis parameters. International conference on male reproduction and Infertility, Indian, 2005.
46. **Sadeghi MR**,Hodjat M, Talebian A, Gaffari M, Sadri Ardekani H, Akhondi MM. Sperm ubiquitination as a function test correlates with semen parameters. International workshop Molecular Andrology.7-9 Oct,2005.Giessen, Germany. (Poster)
47. Sadri Ardekani H, Mobaraki M, Amirjanti N, Zeraati H,Ghaffari M, Akhondi MM,**Sadeghi MR**. ComparisonSemen Parameters and two sperm chromatin structure: as routine diagnostic tests for evaluation male factor infertility.International workshop Molecular Andrology. 7-9 Oct, 2005.Giessen, Germany. (Poster)
48. Mirzadegan (Torkabadi) E,Jeddi-Tehrani M, **Sadeghi MR**,Akhondi MM. Acrosome reaction assay by flow cytometry and comparison with triple staining and quinacrine epifluoresence. 12<sup>th</sup>international congress of Immunology and the 4<sup>th</sup> annual meeting of FOCIS. 18-23 July, 2004.Montreal,Quebec,Canada. (Poster)
49. Talebian A, Amir Jannati N, Sadri-Ardakani H, Akhondi MM, **Sadeghi MR**. Effect of time on

antisperm antibody production in vasectomized male. 12th International Congress of Immunology and 4th Annual Conference of FOCIS. 18-23 July 2004, Montreal, Canada. (Poster)

50. Mirzadegan (Torkabadi) E, Jeddi-Tehrani M, **Sadeghi MR**, Akhondi MM. Characterization of HS80 monoclonal antibody for detection of its antigen on the surface of human sperm. 12<sup>th</sup> international congress of Immunology and the 4<sup>th</sup> annual meeting of FOCIS, in Montreal, Canada, 18-23 July, 2004. Montreal, Quebec, Canada. (Poster)
51. Sadri-Ardakani H, **Sadeghi MR**, Akhondi MM. Production of Monoclonal antibody against Surface antigens of human Spermatozoa. Third Congress of Andrology. 11-14 Sep, 2004. Munster-Germany. (Poster)
52. Talebian AA, Sedghazar M, Amir-jannati N, **Sadeghi MR**. Effect of time on antisperm antibody production in vasectomized males. 12<sup>th</sup> International Congress of Immunology and 4th Annual Conference of FOCIS. 18-23 July, 2004. Montreal, Quebec, Canada. (Poster)
53. **Sadeghi MR**, Talebian AA, Jalali M, Jeddi-Tehrani M, Akhondi MM. An ELISA Method for detection of antisperm antibody. 12<sup>th</sup> International Congress of Immunology and 4th Annual Conference of FOCIS. 18-23 July, 2004. Montreal, Quebec, Canada. (Poster)
54. Jeddi-Tehrani M, **Sadeghi MR**, Talebian AA, Akhondi MM, Jalali M. Comparison ELISA and SpermMar test for measurement of anti-sperm antibody: case report. The 1st International Center of Cancer Genetics, The 3rd Joint Meeting of the British Andrology Society. 13-16 December, 2003. British Scotland. (Poster)
55. Akhondi MM, **Sadeghi MR**. SpermMar test false positive or ELISA false negative antisperm measurement. 4<sup>th</sup> COGI Congress, 24-27 April 2003, Berlin, Germany. (Poster)
56. Arefi S, Jahanfar S, Maleki H, **Sadeghi MR**. Ultrasound diagnosis and a twin study of polycystic ovarian syndrome. 11<sup>th</sup> International congress on human reproduction, Canada, 4 June, 2002. Montreal, Canada. (Poster)
57. Jahanfar S, Arefi S, **Sadeghi MR**, Maleki H. Twin study of polycystic ovarian syndrome. Genetic or Environmental? 18<sup>th</sup> Annual meeting of the ESHER. 25 June 2002-22 March 2002, Vienna, Austria. (Poster)
58. **Sadeghi MR**, Akhondi MA, Zahraei M. Identification of rat epididymal secretory proteins with essential role in fertilization. 17<sup>th</sup> European Society of Human Reproduction and Embryology (ESHRE). 1-5 July 2001, Lausanne, Switzerland. (Oral)
59. Akhondi MA, **Sadeghi MR**, Zahraei M. Identification of Common Proteins Between Epididimal Epithelium and Secretion and Surface of Rat Spermatozoa. 16<sup>th</sup> European Society of Human Reproduction and Embryology (ESHRE), 21 March 1998-21 March 2002, Bologna, Italy. (Oral)
60. **Sadeghi MR**, Akhondi MM, Zahraei M, Baharvand H. Secreted 20 kDa Protein from Rat Epididymal Epithelium has a Critical Role in Fertilization. Joint UK Fertility Societies Meetings fertility. 31 July-2 August, 2000. Edinburgh. (Poster)
61. Akhondi MA, **Sadeghi MR**, Zahraei M. Identification of Common Proteins between Epididimal Epithelium and Secretion and Surface of Rat Spermatozoa. MEFS, Sharmoshaykh Egypt, 1999. Bologna, Italy. (Oral)

### ***National presentations:***



1. Darbandi M, Darbandi S, Dr Ashok Agarwal, Dr. S. Esteves, Mr Pallav Sengupta, Dr. S. Dutta, KHoramkorshid, HR, Akhondi Mm, Sadeghi MR. Effect of reactive oxygen species on the methylation status of human sperm imprinting genes, seminal plasma metabolites, and semen parameters . European Society of Human Reproduction and Embryology ( ESHRE) 1 July 2018, 4 July 2018
2. Heidari M . Darbandi M, Darbandi S, Sadeghi MR. Fibronectin and human sperm selection. European Society of Human Reproduction and Embryology ( ESHRE). 1 July 2018, 4 July 2018
3. **Sadeghi MR**. Frozen Embryo Transfer: More Success?. The paper presented at the *18th Congress on Reproductive Biomedicine*. 30 August 2017-1 September 2017, Tehran, Iran. (Oral)
4. Darbandi S, Darbandi M, Heidari M, **Sadeghi MR**, Parizadeh MR, Ghayourmobarhan M, Owji AA, Mokrem P, Zhao B, Gordon F. If Body Electro Acupuncture Can Be Used For Obese Impotent Men. The paper presented at the *International Congress on Reproduction*. 23-25 May 2015, Tehran, Iran. (Poster)
5. Fathi Z, **Sadeghi MR**, Lakpour N, Mozaffari R, Goharbakhsh L, Akhondi Mm. Selection of the best sperm processing method in leukocytospermia. The paper presented at the 20th national congress on infertility and reproduction. 11-13 June 2014, Isfahan, Iran. (Poster)
6. Lakpour N, Amir jannati N, Shani S, Akhondi Mm, Fathi Z, Bolourzadeh M, Saadaei jahromi N, **Sadeghi MR**. Influence of 3-hour abstinence on sperm DNA fragmentation and the maturity of sperm chromatin. The paper presented at the 20th national congress on Infertility and Reproduction. 11-13 June 2014, Isfahan, Iran. (Poster)
7. Badehnoosh B, Mohammad zadeh A, **Sadeghi MR**, Akhondi Mm, Kazem nejad S, Arjmand F, Zafardust S, Fatemi F, Mokhtar S. The effects of intrauterine injection of human chorionic gonadotropin (hCG) before embryo transfer on the implantation rate in the intracytoplasmic sperm injection (ICSI) program. The paper presented at the 20th National congress on Infertility and Reproduction. 11-13 June 2014, Isfahan, Iran. (Oral)
8. Khanaki K, **Sadeghi MR**, Abedinzadeh M, Akhondi Mm, Shaabani M. Effect of long-chain fatty acids on secretory phospholipase A2IIa of ectopic and matched eutopic endometrial cells in the culture media. The paper presented at the 12th international congress of immunology & allergy iran. 29 April 2014-2 May 2014, Tehran, Iran. (Poster)
9. Meyfour A, Rezaie Tavirani RT, **Sadeghi MR**. Separation of Sperm Cell Proteins from Fertile and infertile men Using SDS-PAGE Technique. 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion. 25-26 February 2013, Tehran, Iran. (Poster)
10. Meyfour A, Rezaie Tavirani RT, **Sadeghi MR**. Resolution Comparison of Small and Large Gels in Two-Dimensional Gel Electrophoresis. 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion. 25-26 February 2013, Tehran, Iran. (Poster)
11. Meyfour A, Rezaie Tavirani RT, **Sadeghi MR**. Common Proteomic Technologies, Applications, and their Limitations. 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion. 25-26 February 2013, Tehran, Iran. (Poster)
12. Meyfour A, Rezaie Tavirani RT, **Sadeghi MR**. Total Protein Extraction with High Concentration from the sperm Cells of Fertile and Infertile Men. 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion. 25-26 February 2013, Tehran, Iran. (Poster)
13. Eghbali M, Modarresi MH, Lakpour N, Edalat khah H, Zeraati H, Soltan Ghoraei H, Akhondi MM, **Sadeghi MR**. Spermatogenesis assessment using testis specific gene expression. 5th Yazd International Congress and Student Award in Reproductive Medicine, 19-21 April 2013, Tehran,

14. Fathi Z, **Sadeghi MR**. Endometriosis and the Egg and Embryo Quality. 2nd National Congress on Endometriosis. 22-24 January 2013, Tehran, Iran. (Oral)
15. Gilani K, Vafakhah M, Lakpour N, **Sadeghi MR**. Protein-Protein Interaction in human seminal plasma proteome using Cytoscape: A gold mine of biomarker for male infertility. Fourth Iranian Conference on Bioinformatics. 6-7 November 2012, Tehran, Iran. (Poster)
16. **Sadeghi MR**. Quality control and risk management in Embryology Department, Infertility clinic. Second National Symposium in Reproductive Biology. 17-18 October 2012, Yazd, Iran. (Oral)
17. **Sadeghi MR**. Application of stem cell in infertility treatment. The paper presented at the The first Seminar in Research and therapeutic applications of Stem cells. 0, 1-2 November 2012, Mashhad, Iran. (Oral)
18. Abtahi H, Shabani M, Jameie B, Zarnani AH, Talebi S, Lakpur N, Edalatkhah H, Akhondi MM, Amiri M, **Sadeghi MR**. Regulation of luteinizing hormone receptor in hippocampal neurons following different long-lasting treatments in castrated adult rat. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry & Molecular Biology. 6-9th September 2011. Mashhad, Iran (Poster)
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### ***Superviseds:***

1. « Mohamad Reza Sadeghi » has collaborated as a « Scientific Reviewer » for the research proposal no. 400/500477 submitted to Iran National Science Foundation (INSF) "دوری پروزال" 1400
2. scientific reviewer for the resarch proposal no 400/16945 submitted to National instituter for medical Research Development(nimad)  
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### ***Research Interests:***

- Male Reproduction & Infertility
- Assisted Reproductive Techniques (ART)
- Molecular Mechanism of Sperm-Oocyte Interaction
- Molecular Mechanism of Male Infertility
- Sperm Surface Antigens
- Spermatogenesis

- Sperm Maturation
- Gamete Cryopreservation