

CURRICULUM VITAE



Name: Mohammad Reza Sadeghi

Date of Birth: 21 March 1968

Sex: Male

Marital Status: Married

Child: 2 Children

Email: sadeghi@ari.ir

m_r_sadeghi@yahoo.com.

Address: Avicenna Research Institute, Shahid Beheshti University,
Evin, Tehran, Iran.

Tel: +98(21)22432020. Fax:+98(21)22432021

Position:

- Chairman of Avicenna Research Institute
- Deputy of Research, Avicenna Research Institute, ACECR, Tehran, Iran.
- 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.
- Secretary 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.
- Morality Committee in Biomedical Research, Avicenna Research Institute, ACECR, Tehran, Iran.
- Member of Iranian Society for Reproductive Medicine, Ministry of Health and Medical Education.
- Boardmember of Iranian Society for Embryology and Reproductive biology, Ministry of Health and Medical Education.

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:

1. 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).
2. Sperm selection according to molecular markers on spermatozoa surface. Iranian Academic Center for Education, Culture & Research (ACECR).
3. 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 Reseach.
4. Analysis of azoospermia factors (AZF) microdeletion in men with idiopathic non-obstructive azoospermia and oligospermia. Avicenna Research Institute (ARI), ACECR.
5. 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 University of Medical sciences.
6. 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.
7. 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
8. Identification of molecular markers for spermatogenesis in seminal plasma of non-obstructive azoospermic men. Avicenna Research Institute (ARI),ACECR.
9. Polymorphism of P and M isoenzymes of glutathione S-transferase in infertile men attending Avicenna Infertility Clinic. . Iranian Academic Center for Education, Culture & Research (ACECR).

10. Study the relationship between sperm function test and outcome of assisted reproductive techniques in couples attending Avicenna Research Institute. Iranian AcademicCenter for Education, Culture &Research (ACECR).
11. 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.
12. 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).
13. Designing of ELISA kit for measurement of pregnancy associated Plasma Protein-A (PAPP-A). Avicenna Research Institute (ARI), ACECR.
14. 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.
15. Analyzing defects in Phospholipid Hydroperoxide glutathione Peroxidase Gene and the relevant relationship with spermogram parameters as well as the oxidative stress status and sperm functional tests in oligoasthenozoospermic men. Avicenna Research Institute (ARI) and Kermanshah University of Medical Sciences.
16. Design an immuno fluorescent method for detection an apoptotic spermatozoa. Iranian AcademicCenter for Education, Culture &Research (ACECR).
17. Designing of an ELISA method for quantitative measurement of inhibinB. Iranian AcademicCenter for Education, Culture &Research (ACECR).
18. Twin Registry in Iran. WHO, EMRO, Cairo, Egypt.
19. 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.
20. Effect of folic acid and zinc sulfate supplementation on sperm function tests in infertile male. Iranian AcademicCenter for Education, Culture &Research (ACECR).
21. Identification of suitable biochemical markers for spermatogenesis in seminal plasma of azoospermic men. Avicenna Research Institute (ARI), ACECR.
22. Comparative study of ICSI outcome using ejaculated sperm and testicular sperm in cryptozoospermic men. Avicenna Research Institute (ARI), ACECR.
23. 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.
24. Study of metallothionein 1M gene exon 2 polymorphism and screening the metallothionein 1G polymorphisms in men with unknown infertility referred to Avicenna Infertility Clinic compared with healthy fertile men. Avicenna Research Institute (ARI) and Iran University of Medical Sciences.
25. Detection of PERF15 gene mutations and its association with men infertility. Avicenna Research Institute (ARI) and Shahid-Beheshti Medical Sciences University.

26. 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.
27. Sperm washing of HIV infected semen in serodiscordant couples for IVF/ICSI. Avicenna Research Institute (ARI), ACECR.
28. Effect of shorter abstinence on ICSI outcomes. Avicenna Research Institute (ARI), ACECR.
29. 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.
30. Evaluation of the effect 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.

Researchin Progress:

1. 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.
2. Relationship of sperm functions with its surface biomarkers involved in fertilization. Avicenna Research Institute (ARI), ACECR & Iran National Science Foundation.
3. Effects of Antioxidant Supplementation (Vitamin E+ Folic Acid+ Selenium) on Sperm Parameters, Sperm DNA Fragmentation, TAC and Seminal Plasma Metabolome in Astonospermic Patients. Avicenna Research Institute (ARI), ACECR.
4. Understanding the effects of oxidative stress, on structure and functions of human sperm, at genome, proteome and metabolome level. Avicenna Research Institute (ARI), ACECR.

Publications:

I. Papers:

1. 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. In Press
2. 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. In Press
3. 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

4. Jafarian A, Lakpour N, **Sadeghi MR**, Salehkhrou 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.
5. Eslamian G, Amirjannati N, Rashidkhani B, **Sadeghi MR**, Hekmatdoost A. Nutrient patterns and asthenozoospermia: a case-control study. *Andrologia*. 2017; 49(3): 1-6
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. Fatemi F, Mohammadzadeh A, **Sadeghi MR**, Akhondi Mm, Mohammadmoradi SH, Kamali K, Lakpour N, Johari Sh, Zafardust S, Mokhtar S, Giah 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
13. Vatannejad A, Tavilani 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
14. 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

15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. Naghibi Harat Zh, Lakpour N, Sadeghipour HR, Kamali Nejad M, Eshraghian MR, B. Naghibi, Akhondi MM, Binafar S, **Sadeghi MR**. Immobilising effect of *Ruta graveolens* L. on human spermatozoa: coumarin compounds are involved. *Andrologia*.2015; 47(10): 1183-9
22. Eslamian Gh, Amir jannati N, Rashidkhani B, **Sadeghi MR**, Baghestani Ar, Hekmat doost A. Dietary fatty acid intakes and asthenozoospermia: a case-control study. *Fertility and Sterility*. 2015; 103(1): 190-198
23. Jafarzadeh N, Ahmad mani V, Minaie tehrani A, Savadi shirazi E, **Sadeghi MR**, Gilani K. Metabolomics Fingerprinting of Seminal Plasma from Unexplained Infertile Men: A Need for Novel Diagnostic Biomarkers. *Molecular Reproduction and Development*. 2015; 82(3): 150-150
24. Zafardust S, Jeddi- tehrani M, Akhondi Mm, **Sadeghi MR**, Kamali K, Mokhtar S, Badehnoosh B, Arjmand F, Fatemi F, Mohammad zadeh A. Effect of Administration of Single Dose GnRH Agonist in Luteal Phase on Outcome of ICSI-ET Cycles in Women with Previous History of IVF/ICSI Failure: A Randomized Controlled Trial. *Journal of Reproduction and Infertility*. 2015; 16(2): 96-101
25. Savadi shirazi E, Edalat khah H, Talebi S, Heidari-vala H, Zand emami M, Pahlavan S, Modarresi Mh, Akhondi Mm, Agnieszka paradowska D, **Sadeghi MR**. Quantification of sperm specific mRNA transcripts (PRM1, PRM2, and TNP2) in teratozoospermia and normozoospermia: New correlations between mRNA content and morphology of sperm. *Molecular Reproduction and Development*. 2015; 82(1): 26-35
26. Jafarian A, **Sadeghi MR**, Pejhan N, Salehkhoh S, Lakpour N, Akhondi MM. Regeneration of spermatogenesis in a mouse model of azoospermia by follicle-stimulating hormone and oestradiol. *Andrologia*. 2014; 46(10) : 1098-1106

27. Amini L, **Sadeghi MR**, Oskooei F. Lipoproteins and Apolipoproteins in Women with Hirsutism. *Journal of Clinical Care*. 2014; 2(3): 61-68
28. Amini L, **Sadeghi MR**, Oskooei F, Kamali K, Maleki H. Lipid Profile in Women with Polycystic Ovary Syndrome. *Crescent Journal of Medical and Biological Sciences*. 2014; 1(4): 147-150
29. Khanaki K, **Sadeghi MR**, Akhondi Mm, Darabi M, Mehdizadeh -, Shaabani M, Rahimpour A, Nouri M. High ω -3: ω -6 fatty acids ratio increases fatty acid binding protein 4 and extracellular secretory phospholipase A2IIa in human ectopic endometrial cells. *Iranian Journal of Reproductive Medicine*. 2014; 12(11): 755-764
30. Eghbali M, **Sadeghi MR**, Lakpour N, Edalat khah H, Zeraati H, Soltan ghorae H, Akhondi Mm, Hashemi Sb, Modarresi Mh. Molecular analysis of testis biopsy and semen pellet as complementary methods with histopathological analysis of testis in non-obstructive azoospermia. *Journal of Assisted Reproduction and Genetics*. 2014; 31(6): 707-715
31. Raygani M, Yaghmae B, Amir jannati N, Lakpour N, Akhondi Mm, Zeraati H, Hosein ali M, **Sadeghi MR**. The micronutrient supplements, zinc sulphate and folic acid, did not ameliorate sperm functional parameters in oligoasthenoteratozoospermic men. *Andrologia*. 2014; 46(9): 956-962
32. Amini L, Oskooei F, Behnam B, **Sadeghi MR**. PolyCystic Ovary Syndrome in Monozygotic Twins Concordant for Lipid Profiles in Iranian Reproductive Women. *International Journal of Women's Health and Reproduction Sciences*. 2014; 2(4): 236-239
33. Jamshidi J, Pouresmaeili F, Darvish H, Omrani D, Azargashsab E, **Sadeghi MR**, Lakpour N. FABP9 Mutations Are Not Detected in Cases of Infertility due to Sperm Morphological Defects in Iranian Men. *International Journal of Fertility and Sterility*. 2014;7(4):275-280.
34. Najarzadeh A, Shidfar F, Amir Jannati N, Vafa M, Motevallian SA, Gohari M, Nazeri Kakhki S A, Akhondi MM, **Sadeghi MR**. Effect of Coenzyme Q10 supplementation on antioxidant enzymes activity and oxidative stress of seminal plasma: a double-blind randomized clinical trial. *Andrologia*. 2014;46(2):177-183
35. Hakimi H, Akhondi MM, **Sadeghi MR**, Chamani Tabriz L, Kazemi Arababadi M, Nasiri Ahmadabadi B, Hasan Shahi GhH. Seminal Levels of IL-10, IL-12, and IL-17 in Men with Asymptomatic Chlamydia Infection. *Inflammation*. 2014;37(1):122-126.
36. Gilani K, Moazeni-Pourasil R, **Sadeghi MR**. Fourier Transform Infrared Spectroscopy: A Potential Technique for Noninvasive Detection of Spermatogenesis. *Avicenna Journal of Medical Biotechnology*. 2014;6(1):47-52
37. Khosravi F, Zarei S, Ahmadvand N, Akbarzadeh Pasha Z, Savadi Shirazi E, Zarnani AH, **Sadeghi MR**, Jeddi- Tehrani M. Association between plasminogen activator inhibitor 1 gene mutation and different subgroups of recurrent miscarriage and implantation failure. *Journal of Assisted Reproduction and Genetics*. 2014;31(1):121-124
38. Khorram Khorshid HR, Zargari M, **Sadeghi MR**, Edallatkah H, Shahhosseiny MH, Kamali K. Early fetal gender determination using real-time PCR analysis of cell-free fetal DNA during 6th-10th weeks of gestation. *Acta Medica Iranica*. 2013;51(4):209-214.
39. Akhondi MM, Mohazzab A, Jeddi-Tehrani M, **Sadeghi MR**, Eidi A, Khodadadi A, Piravar Z .Propagation of human germ stem cells in long-term culture. *Iran J Reprod Med*; 2013;11(7):551-558.
40. Darvish nia H, Lakpour N, Shams Lahijani M, Heidari-Vala H, Akhondi MM, Zeraati H, **Sadeghi MR**. Effects of very rapid versus vapor phase freezing on human sperm parameters. *Cell and Tissue Banking*. 2013;14(4):679-685

41. Heidari-Vala H, Ebrahimi Harir R, **Sadeghi MR**, Akhondi MM, Ghaffari Novin M, Heidari M. Evaluation of an Aqueous-Ethanollic Extract from *Rosmarinus officinalis* (Rosemary) for its Activity on the Hormonal and Cellular Function of Testes in Adult Male Rat. *Iranian Journal of Pharmaceutical Research*. 2013;12(2):445-451
42. Eslamian Gh, Amir Jannati N, **Sadeghi MR**, Rashidkhani B, Pahlavan S, Hooshangi A, Hekmat Doost A. The effects of combined supplementation of docosahexaenoic acid and vitamin E on fatty acid changes in sperm membrane in asthenozoospermic men. *Iranian Journal of Nutrition Sciences & Food Technology*. 2013;8(1):23-37
43. Sarvari A, Naderi MM, **Sadeghi MR**, Akhondi MM. A technique for facile and precise transfer of mouse embryos. *Avicenna Journal of Medical Biotechnology*. 2013;5(1):62-65
44. Abtahi H, Shabani M, Jameie SB, Zarnani AH, Talebi S, Lakpour N, Heidari-Vala H, Edalatkhah H, Akhondi MA, Amiri M, Mahmoudi AR, **Sadeghi MR**. Regulation of luteinizing hormone receptor in hippocampal neurons following different long-lasting treatments of castrated adult rats. *Indian Journal of Experimental Biology (IJEB)*. 2013;51(03):218-227.
45. Meyfour A., Rezaie Tavirani M., **Sadeghi MR**. Common Proteomic Technologies, Applications, and their Limitations. *Journal of Paramedical Sciences (JPS)* 2013;4:115-125 .
46. Meyfour A, Rezaie Tavirani M, **Sadeghi M.R**, Basati Gh, Amraei M. Total Protein Extraction With High Concentration From The Sperm Cells of Fertile and Infertile Men. *Scientific Journal of Ilam University of Medical Sciences*. 2013;20(4):144-151.
47. Lakpour N, Mirfeizollahi A, Farivar S, Akhondi MM, Hashemi SB, Amirjannati N, Heidari-Vala H, **Sadeghi MR**. The association of seminal plasma antioxidant levels and sperm chromatin status with genetic variants of GSTM1 and GSTP1 (Ile105Val and Ala114Val) in infertile men with oligoasthenoteratozoospermia. *Dis Markers*. 2013;34(3):205-210
48. Piravar Z, Jeddi-Tehrani M, **Sadeghi MR**, Mohazab A, Eidi A, Akhondi MM. In vitro Culture of Human Testicular Stem Cells on Feeder-Free Condition. *Journal of Reproduction and Infertility* 2013;14(1):17-22.
49. Eslamian G, Amirjannati N, Rashidkhani B, **Sadeghi MR**, Hekmatdoost A. Intake of food groups and idiopathic asthenozoospermia: a case–control study. *Hum Reprod*. 2012;27(11):3328-3336.
50. Zand Emami M, Ghoojagh D, Akhondi MM, Kamali K, Raygani M, Lakpour N, Savadi Shirazi E, **Sadeghi MR**. Correlation of CMA3 Staining with Sperm Quality and Protamine Deficiency. *Lab Medicine* 2012;43(6):262-267.
51. Lakpour N, Mahfouz RZ, Akhondi MM, Agarwal A, Kharrazi H, Zeraati H, Amirjannati N, **Sadeghi MR**. Relationship of seminal plasma antioxidants and serum male hormones with sperm chromatin status in male factor infertility. *Systems Biology in Reproductive Medicine*. 2012;58(5):236-244
52. Khanaki K, Nouri M, Ardekani A M, Ghassemzadeh A, Shahnazi V, **Sadeghi MR**, Darabi M, Mehdizadeh, Dolatkhah, Saremi A, R. Imani, Rahimpour A. Evaluation of the Relationship between Endometriosis and Omega-3 and Omega-6 Polyunsaturated Fatty Acids. *Iranian Biomedical Journal* 2012;16(1):38-43.
53. Khanaki K, Motevally Zadeh Ardekani A, Ghasem-Zadeh A, Shahnazi V, **Sadeghi MR**, Darabi M, Mehdizadeh, Saremi A, Soleimani Rad J, R. Imani, Nouri M, Rahimpour A. Effect of polyunsaturated fatty acids on secretory phospholipase A2 type IIa in ectopic endometrial cells. *Iranian Journal of Reproductive Medicine*. 2012;10(4):321-328.

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55. Amirjannati N, Heidari-vala H, Akhondi MM, Hosseini Jadda SH, Kamali K, **Sadeghi MR**. Comparison of intracytoplasmic sperm injection outcomes between spermatozoa retrieved from testicular biopsy and from ejaculation in cryptozoospermic men. *Andrologia*. 2012;44(Supplement s1), 704–709
56. Saliminejad K, **Sadeghi MR**, Kamali K, Amirjannati N, Soltanghoreae H, Khorram Khorshid HR. Discrepancy in the Frequency of Y chromosome Microdeletions among Iranian Infertile Men with Azoospermia and Severe Oligozoospermia. *Genetic Testing and Molecular Biomarkers*. 2012; 16(8):931-934
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58. Heidari M, Heidari-Vala H, **Sadeghi MR**, Akhondi MA. The inductive effects of *Centella asiatica* on rat spermatogenic cell apoptosis in vivo. *Journal of Natural Medicines*. 2012;66(2):271-278
59. Zargary M, **Sadeghi MR**, Shah Hoseini MH, Kamali K, Salimi Nejad K, Esmaeil zadeh A, Khorram Khorshid HR. Fetal Sex Determination using Non-Invasive Method of Cell-free Fetal DNA in Maternal Plasma of Pregnant Women During 6th– 10th Weeks of Gestation. *Avicenna Journal of Medical Biotechnology*. 2011;3(4):201-206
60. Abtahi1H, **Sadeghi MR**, Shabani M, Edalatkhah H, Hadavi R, Akhondi MM, Talebi S. Causes of bimodal melting curve: Asymmetric guanine-cytosine(GC) distribution causing two peaks in melting curve and affecting their shapes. *African Journal of Biotechnology*. 2011;50(10):10196-10203
61. Shahbazi M, Jeddi- Tehrani M, Zarei M, Salek Moghaddam AR, Akhondi MA, **Sadeghi MR**, Zarnani AH. Expression profiling of vitamin D receptor in placenta, decidua and ovary of pregnant mice. *Placenta*. 2011;32(9):664-657
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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