

Zahra Rashidi

Assistant Professor, School of Medicine,



KUMS

Curriculum Vitae

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PERSONAL INFORMATION:

First name: Zahra

Surname: Rashidi

Nationality: Iranian

Date of birth: 1982

Place of birth: Kermanshah, Iran

Marital status: Married

Address:

Department of Anatomical Sciences and Biology, School of Medicine, Kermanshah University of Medical Sciences, Kermanshah, 6714869914, Iran, Tel/Fax: +98 - 83 – 34274618

Fertility and Infertility Research Center, Health Technology Institute, Kermanshah University of Medical Sciences, Kermanshah, Iran

E-mail: rahidi.zahra@gmail.com, zahra.rashidi@kums.ac.ir

EDUCATION:

2001-2005 B.Sc: **Biology**, Department of Biology, Faculty of Basic Sciences, Razi University, Kermanshah, Iran

2006-2009 M.Sc: **Developmental Biology**, Department of Biology, Faculty of Basic Sciences, Razi University, Kermanshah, Iran

2014-2019 Ph.D: **Reproductive Biology**, Department of Anatomy, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran

M.Sc. Thesis subject:

" Effects of hydrostatic pressure on preovulatory follicle produced of mouse in vitro"

Supervisors: Dr.Mehri Azadbakht, Dr.Ali Amini

Ph.D. Thesis subject:

"Effect of Quercetin on the expression of thioredoxin system (TRX/TXNIP) via Nrf2/ARE pathway in human granulosa cells" Supervisors: Dr. Fardin Amidi, Dr. Ashraf Ale Yasin.

HONORS:

Top students in undergraduate, graduate and PhD courses.

The best Ph.D thesis in Tehran University of Medical Sciences, 2018.

TEACHING EXPERIENCE:

Histology, embryology and Cell Biology in Faculty of Paramedical Sciences, Kermanshah University of Medical Sciences, Payam Noor University (PNU) Kermanshah and Faculty of Basic Sciences, Razi University

RESEARCH INTERESTS:

Biology and pathology of human sperm, oocyte and embryo.

In vitro and in-vivo study for male and female reproductive system

ART techniques (SA, IUI, IVM, IVF, ICSI, sperm- egg and embryo freezing, embryo biopsy)

Cell culture, cellular, and molecular biology

Cancer treatment in reproductive systems

Laboratory skills:

Fertility treatment center from 2010 to 2012 years

Fertility and infertility research center from 2012 to 2014

- 1: Cell Culture (Cell lines, Primary Culture, Stem cells)
2. Cell death detection (TUNEL assay, Acridin Orang / Ethidium Bromid, Hoechst/PI)
3. MTT Assay, Nitric Oxide Assay, Migration Assay
6. Isolation of stromal and epithelial cells from human endometrial tissue
7. Isolation and culture of Mouse embryonic fibroblast cells (MEF).
8. Histotechnique (Tissue processing, paraffin section and cryosection)
9. Sperm analysis, Semen processing, IUI, IVF, ICSI in mouse and Human
10. Ovarian and follicle Vittrification in mouse.
11. Oocyte, sperm, embryo Vittrification in human
12. Isolation and culture of human granulosa cells in human
13. PCR &RNA /DNA extraction, Real time PCR
14. Western blot
15. Enzyme activity
16. ELISA
17. Flow cytometry

PUBLICATIONS:

FULL ARTICLES

1. Momeni Maryam, **Rashidi Zahra**, Azadbakht Mehri. Effect of Hydrostatic Pressure on In Vitro Maturation of Mouse Oocyte. Journal of Iranian Anatomical Sciences, Vol 9, Spring 2011, Pages: 1-12
2. **Rashidi Zahra**, Azadbakht Mehri, Khazaei Mozafar,. Hydrostatic pressure improves in-vitro maturation of oocytes derived from vitrified-warmed mouse ovaries. Iran J Reprod Med Vol. 10. No.3. May 2012, pp: 257-264.

3. **Rashidi Zahra**, Azadbakht Mehri, Amini Ali. Isac Karimi . Hydrostatic Pressure Affects In Vitro Maturation of Oocytes and Follicles and Increases Granulosa Cell Death. Cell Journal (Yakhteh), Vol 15, No 4, Winter 2014, Pages: 282-293.
4. Leila Rezakhani, **Zahra Rashidi**, Pegah Mirzapur, Mozafar Khazaei. Antiproliferatory Effects of Crab Shell Extract on Breast Cancer Cell Line (MCF7). Journal of Breast Cancer, 2014 September; 17(3): 219-225
5. Pegah Mirzapur, **Zahra Rashidi**, Leila Rezakhani, Mozafar Khazaei. In vitro inhibitory effect of crab shell extract on human umbilical vein endothelial cell. In Vitro Cellular & Developmental Biology. Animal 2014, 51(1):36-41.
6. Sedigheh Ganji-Harsini., Mozafar Khazaei, **Zahra Rashidi**, Ali Ghanbari. Thymoquinone Could Increase The Efcacy of Tamoxifen Induced Apoptosis in Human Breast Cancer Cells: An In Vitro Study. Cell Journal. 2016; 18(2): 245-254.
7. Mohammad Rasoul Khazaei , **Zahra Rashidi** , Farzaneh Chobsaz , Mozafar Khazaei Apoptosis induction of human endometriotic epithelial and stromal cells by noscapiene. Iranian Journal of Basic Medical Sciences. 2016; 19:940-945.
8. Arezou Rabzia, Mozafar Khazaei, **Zahra Rashidi** and Mohammad Rasoul Khazaei Synergistic Anticancer Effect of Paclitaxel and Noscapiene on Human Prostate Cancer Cell Lines. Iranian Journal of Pharmaceutical Research (2017), 16 (4): 1432-1442.
9. Amidi F, **Rashidi Z**, Khosravizadeh Z, Khodamoradi K, Talebi A, Navid S, et al. "Antioxidant effects of quercetin in freeze-thawing process of mouse spermatogonial stem cells". Asian Pacific Journal of Reproduction_2019; 8(1): 7-12
10. **Zahra Rashidi**, Ashraf Aleyasin, Mojtab Eslami, Saeid Nekoonam, Adib Zendedel, Mojdeh Bahramrezaie, Fardin Amidi. Quercetin protects human granulosa cells against oxidative stress via thioredoxin system. Reproductive Biology, 2019; 19(3)
11. Mojtab Eslami, Sahar Esfandiari, Marzeih Aghahosaini, **Zahra Rashidi**, shrzad Hosaini, Samaneh Brenjian, Aligholi Sobhani, Fardin Amidi. Astaxanthin protects human granulosa cells against oxidative stress trough activation of Nrf2/ARE pathway and its downstream phase II enzyme. Cell Journal, 2020 , Accepted
12. M Pourheydar, **Z Rashidi**, M Khazaei. Effect of letrozole and raloxifene on in vitro human endometrial stromal cells. The Iranian Journal of Obstetrics, Gynecology and Infertility, 2020, 23 (5), 26-34.
13. Z Khosravizadeh, **Z Rashidi**, A Talebi, K Khodamoradi, G Hassanzadeh, The role of mitochondria in premature ovarian failure: A review, Journal of Contemporary Medical Sciences , 2020,6 (1)

14. Amirsaeed Sabeti Aghabozorgi, Reyhane Ebrahimi, Alireza Bahiraei, Sadra Samavarchi Tehrani, Fatemeh Nabizadeh, Leila Setayesh, Reza Jafarzadeh-Esfehani, Gordon A Ferns, Amir Avan, **Zahra Rashidi**. The genetic factors associated with Wnt signaling pathway in colorectal cancer, Life Sciences, 2020 118006
15. A Faramarzi, F Aghaz, M Bakhtiari, S Roshankhah, **Z Rashidi**, M Khazaei, Ceratonia siliqua (Carob) extract improved in vitro development of vitrified-warmed mouse germinal vesicle oocytes: assessment of possible mechanism. Cell and Tissue Banking, 2020, 1-8
16. MR Khazaei, Z Rashidi, F Chobsaz, E Niromand, M Khazaei, Inhibitory effect of resveratrol on the growth and angiogenesis of human endometrial tissue in an In Vitro three-dimensional model of endometriosis. Reproductive Biology 20 (4), 484-490
17. **Z Rashidi**, Z Khosravizadeh, A Talebi, K Khodamoradi, R Ebrahimi, ...Overview of biological effects of Quercetin on ovary. Phytotherapy Research 2021, 35 (1), 33-49
18. Fatemeh Ebrahimi, Sahar Rostami, Saeid Nekoonam, **Zahra Rashidi**, Aligholi Sobhani & Fardin Amidi. The Effect of Astaxanthin and Metformin on Oxidative Stress in Granulosa Cells of BALB C Mouse Model of Polycystic Ovary Syndrome. Reproductive Sciences: Original Article Published: 19 April 2021
19. M Eslami, S Esfandyari, M Aghahosseini, **Z Rashidi**, S Hosseinishental, ...Astaxanthin Protects Human Granulosa Cells against Oxidative Stress through Activation of NRF2/ARE Pathway and Its Downstream Phase II Enzymes Cell Journal (Yakhteh) 2021 23 (3), 319
20. Ali Talebi, Kajal Khodamoradi, **Zahra Rashidi**, Zahra Khosravizadeh, Nazanin Bayat, Poorya Safarzadeh, Fardin Amidi. Attitude of Medical Students toward Third-party Reproductive Techniques. International Journal of Health Studies, 2021, 7 3 25-32
21. S Esfandyari, A Aleyasin, Z Noroozi, M Taheri, M Khodarahmian.. **Z Rashidi...**, The protective effect of sulforaphane against oxidative stress through activation of Nrf2/ARE pathway in human granulosa cells .Cell Journal (Yakhteh) 2021 23 (6), 692
22. Z Khosravizadeh, K Khodamoradi, **Z Rashidi**, M Jahromi, E Shiri, E Salehi, ... Sperm cryopreservation and DNA methylation: possible implications for ART success and the health of offspring Journal of assisted reproduction and genetics, 2022 1-10
23. S Heidarizadi, **Z Rashidi**, C Jalili, M Gholami Overview of biological effects of melatonin on testis: A review Andrologia, e14597, 2022
24. Zahra Salimi, Mohammad Rasool Khazaei, Farshad Moradpour, Fatemeh Zarei, **Zahra Rashidi**, Seyed Mojtaba Ahmadi. Effects of Androgen Deprivation by Castration on Cognitive Functions and Behaviors: A Review Study, Journal of Advances in Medical and Biomedical Research, 2022, 30 (138), 1-11

25. Z Salimi, F Moradpour, **Z Rashidi**, F Zarei, MR Khazaei, SM Ahmadi, The association of brain-derived neurotrophic factor with long-term potentiation Shiraz E-Med. J. 2022, 23 (2), 1-11

26. Zahra Khosravizadeh, **Zahra Rashidi**, Maral Daneshyan, Kajal Khodamoradi, Ali Talebi. Aberrant microribonucleic acid expression patterns in recurrent implantation failure: a review. 2023/1/1 F&S Reviews, Volume 4, Issue 1, Pages 26-37

27. M Khazaei, M Bozorgi, MM Khazaei, F Khazaei, **Z Rashidi**. Quercetin and raloxifene effect on breast cancer cell viability, migration, nitric oxide secretion and apoptotic genes expression, word cancer research journal DOI: 10.32113/wcrj_20239_2679 WCRJ, 2023, 10, e2679

28. M Saman, M Khazaei, **Z Rashidi** Synergistic effects of capsaicin and quercetin improved induced premature ovarian failure in rat Cell Journal (Yakhteh), 2023, 25 (7), 496

29. S Heidarizadi, **Z Rashidi**, C Jalili, K Mansouri, I Rashidi, B Mahaki, ... Melatonin Protects Mouse Type A Spermatogonial Stem Cells against Oxidative Stress via The Mitochondrial Thioredoxin System Cell Journal (Yakhteh) 2023, 25 (11), 741

ABSTRACTS PRESENTED IN CONGRESSES

1. **Rashidi Zahra**, Azadbakht M, Amini A: Effect of hydrostatic pressure on cell death in oocyte and cumulus complex (COCs) of preovulatory follicle produced in vitro. 1th Conference on biology & Biothechnology Islamic Azad University- Sanandaj Branch, 2009. **Oral presentation**

2. **Rashidi Zahra**, Azadbakht Mehri, Amini A: In vitro maturation of oocytes derived from preovulatory follicles produced in vitro after exposure to hydrostatic pressure. 10th international conferences royan, Iran, 2009.

3. **Rashidi Zahra**, Azadbakht Mehri, Amini A: Investigation of cell death in cumulus and oocyte complex (COCs) of preovulatory follicle produced in vitro after exposure to hydrostatic pressure. 10th international conferences royan, Iran, 2009.

4. **Rashidi Zahra**, Azadbakht Mehri, Khazaei Mozafar, Amini A. Hydrostatic pressure improved in vitro maturation of oocytes derived from preovulatory follicles of vitrified-warmed ovarian tissue. 16th International Congress of ISRM, Shiraz, Iran, 2010. **Oral presentation**

5. Khazaei Mozafar, **Rashidi Zahra**, Azadbakht Mehri. Hydrostatic pressure with induced cell death in cumulus cells improved maturation of oocytes from preovulatory follicles derived vitrified-warmed ovarian tissue. 11th international conferences royan, Iran, 2010.

6. **Zahra Rashidi**, Mozafar Khazaei, Arezou Rabzia, Mohammad Rasoul Khazaei Inhibitory effect of noscapine on human endometriotic epithelial cells. 14th international conferences royan, Iran, 2013.
7. Arezou Rabzia, **Zahra Rashidi**, Mozafar Khazaei Antitumor activity of noscapine in combination with paclitaxel on human LNCaP prostate cancer cell line. 9th royan international congress on stem cell biology & technology Iran.
8. Khani Hemat Abdi F, Jalili C, Khazaei M, **Rashidi Z**. Pprotective effect of curcumin on the damage induced by nicotin on reproductive parameters in mice. 14th international conferences royan, Iran, 2013.
9. Khazaei M, Lotfi Kangarshahi R, **Rashidi Z**, chobsaz F. Survey of in vitro effects of Noscapine on nitric oxide secretion of human endometrial stromal cell. 14th international conferences royan, Iran, 2013.
10. Lotfi Kangarshahi R Khazaei M, Ghorbani R, Ghanbari A , **Rashidi Z**. Survey of in vitro effects of Noscapine on apoptosis of human endometrial stromal cell. 14th international conferences royan, Iran, 2013.
11. **Zahra Rashidi**, Mozafar Khazaei, Mohammad Rasoul Khazaei, Farshad Rahimi: Effect of different concentration of noscapine on endometrial stromal cells in patient's endometriosis in vitro. The 11th Conference of Anatomical Sciences, Ahvaz, 2014
12. **Zahra Rashidi**, Mozafar Khazaei, Mohammad Rasoul Khazaei, Farzaneh Chobsaz
High Concentrations Of Noscapine Induces Apoptosis In Stromal Cells Of Endometriosis In Vitro. 15th International Conference of Royan. Iran 2014
13. Kajal khodamoradi, **Zahra Rashidi**, Zahra Khosravizadeh, The role and effects of Acupuncture on pregnancy rate in patients who undergo IVF. 4th international conferences of academy of clinical embryologist in India, 18th - 20th September, 2015.
14. **Zahra Rashidi**, Mozafar Khazaei, Mohammad Rasoul Khazaei. Noscapine induced cell death in human endometriotic epithelial cells. 6th Yazd international conferences and student award in reproductive medicin and 1st Reproductive genetics congress, 17-19 April, 2015 Yazd Iran. **It was introduced as a top poster.**
15. **Zahra Rashidi**, Fardin Amidi, Ali Talebi, Kajal Khodamoradi, Zahra Khosravizadeh, Mehdi Abbasi., "Investigating the Antioxidant Effects of Quercetin in Freezing-Thawing Process of Mouse Spermatogonial Stem Cells". 2018, Bioimpacts;8, Suppl.1: PS-126
16. A Talebi, **Z Rashidi**, Sh Hseini, Z Khosravi, M Ealami, K Khodamoradi, "Endometriosis and oxidative stress". 2015, IRHRC Annual Meeting Reproductive and Infertility Updates: 8: 166

17. Zahra Khosravizadeh, **Zahra Rashidi**, Ali Talebi, Kajar Khodamoradi, Shirzad Hoseini, Mojtaba Eslami., "The role of exercise in fertility". 2015, IRHRC Annual Meeting Reproductive and Infertility Updates: 8: 199

18 **Zahra Rashidi**, Zahra Khosravizadeh, Ali Talebi, Kajar Khodamoradi, Shirzad Hosaini, Mojtaba Eslami., "Polycystic ovary syndrome and the metabolic syndrome". 2015, IRHRC Annual Meeting Reproductive and Infertility Updates: 8: 51

19. K Khodamoradi*, A Talebi, Zahra Khosravizadeh, Z Rashidi, N Bayat, .MP38-07 Attitude of Medical Students Toward Third-Party Reproductive Technique. The Journal of Urology 203 (Supplement 4)2020, E571-E572

20. M Eslami, S Esfandyari, M Aghahosseini, **Z Rashidi**, S Hosseinishental, ... Astaxanthin Protects Human Granulosa Cells against Oxidative Stress through Activation of NRF2/ARE Pathway and Its Downstream Phase II Enzymes Cell Journal (Yakhteh) 23 (3), 319, 2021

THESIS SUPERVISORS:

- The synergistic effect of quercetin and Raloxifene on breast cancer cell lines
- Study of the effects of melatonin on the mitochondrial thioredoxin system in mouse type A spermatogonial stem cells under oxidative stress conditions
- Investigating the effect of capsaicin and quercetin on premature ovarian failure in an induced rat model.
- Evaluation of knowledge and attitude of medical students of Kermanshah University of Medical Sciences regarding infertility treatment with the help of gamete / embryo and surrogate donation
- Investigating the role of mitochondrial damage in toxicity induced by German chamomile plant extract in breast cancer cells
- Investigating the effect of taraxasterol on the proliferation, expression of inflammatory factors, myogenic factor and AKT gene in muscle cells
- Measuring anticancer activity and apoptosis induction of hydroalcoholic extract and aqueous, ethylacetate and n-butanol fractions of Lepidium sativum plant in cervical cancer cell line
- Investigating the effect of hydroalcoholic extract of German chamomile plant on the survival and expression of pro-apoptotic genes in osteosarcoma cells
- Investigating the effect of hydroalcoholic extract of Anacyclus pyrethum plant on proliferation and expression of genes and proteins of ERK1/2 signaling pathway in airway smooth muscle cells in asthma model

BOOKS:

- Textbook of Assisted Reproductive Techniques by David K. Gardner, Ariel Weissman, Colin M. Howles, Zeev Shoham. (Translated book, 2018, Heidari Publisher; Tehran, Iran. ISBN: 978-600-489-127-1)
- “*Clinical aspects of infertility in reproductive biology*”. 2017, Bashari Publisher; Tehran, Iran. ISBN: 978-964-3994-56-3.
- “ New methods of sperm selection in assisted reproductive techniques” Royanpajoo Publisher, Tehran, Iran, ISBN: 978-622-320-011-3
- “Basic Histology John Quiira 2021” Heidari Publisher, Tehran, Iran, ISBN: 9786004895217

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CONGRESS PRESENTATION AND PARTICIPATION:

Poster presentation:

1. **Zahra Rashidi**, Fardin Amidi, Ali Talebi, Kajal Khodamoradi, Zahra Khosravizadeh, Mehdi Abbasi. Investigating the Antioxidant Effects of Quercetin in Freezing-Thawing Process of Mouse Spermatogonial Stem Cells. The 3rd National Festival & International Congress on Stem Cell & Regenerative Medicine, Iran, Tehran. November 2018.
2. **Rashidi Zahra**, Azadbakht Mehri, Khazaei Mozafar, Amini A Hydrostatic pressure improved in vitro maturation of oocytes derived from preovulatory follicles of vitrified-warmed ovarian tissue. 16th national and 1th international Congress on reproductive medicine, shiraz, Iran, 2010
3. **Zahra Rashidi**, Mehri Azadbakht, Ali Amini. Effect of hydrostatic pressure on cell death in oocyte and cumulus complex (COCs) of preovulatory follicle produced in vitro. 1th Conference on biology & Biothechnology Islamic Azad University- Sanandaj Branch, 2009.
4. Mehri Azadbakht, **Zahra Rashidi**. Vitrification of reproductive cells and Tissue. 3th annual conference of Razi University, Kermanshah, 2012

REFERENCE:

Dr. Ali Amini. Associate Professor of Anatomy, Department of Biology, Razi University, Kermanshah Iran. (aminial@yahoo.com)

Dr. Mehri Azadbakht. Assistant Professor of Anatomy, Department of Biology, Razi University, Kermanshah, Iran, (azadbakhttm@razi.ac.ir)

Dr. Mozafar Khazaei. Professor of Embryology and Histology. Fertility and Infertility Research Center, Kermanshah University of Medical Sciences. Iran. (mkhazaei1345@yahoo.com)

Dr. Iraj Amiri. Associate Professor of Embryology and Anatomy, Department of Anatomy, Faculty of Medicine, Hamadan University of Medical Sciences (amiri@umsha.ac.ir)

Dr. Mitra Bakhtiari. Associate Professor of Anatomy Fertility and Infertility Research Center, Kermanshah University of Medical Sciences. Iran. (mbakhtiari@kums.ac.ir)

Dr. Fardin Amidi. Professor of Anatomy. Department of Anatomy, School of Medicine, University of Medical Sciences Tehran, Iran (Amidifardin@yahoo.com).

Dr.Cyrus Jalili. Professor of Anatomical Science, Kermanshah university of Medical Sciences
(cjalili@kums.ac.ir.)