



Zahra Rashidi
Assistant Professor, School of Medicine, KUMS
Curriculum Vitae

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PERSONAL INFORMATION:

First name: Zahra

Surname: Rashidi

Nationality: Iranian

Place of birth: Kermanshah, Iran

Marital status: Married

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

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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 at Razi University of Kermanshah, histology and embryology, general anatomy, cell biology, micro and macro anatomy techniques, cell culture, working with laboratory animals, Kermanshah University of Medical Sciences, histology, embryology and Cell Biology of Payame Noor University of Kermanshah

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 and 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

Cell Culture (Cell lines, Primary Culture, Stem cells)

Cell death detection (TUNEL assay, Acridin Orange / Ethidium Bromide, Hoechst/PI)

MTT Assay, Nitric Oxide Assay, Migration Assay

Isolation of stromal and epithelial cells from human endometrial tissue

Isolation and culture of Mouse embryonic fibroblast cells (MEF).
Histotechnique (Tissue processing, paraffin section and cryosection)
Sperm analysis, Semen processing, IUI, IVF, ICSI in mouse and Human
Ovarian and follicle Vitrification in mouse.
Oocyte, sperm, embryo Vitrification in human
Isolation and culture of human granulosa cells in human
PCR &RNA /DNA extraction, Real time PCR
Western blot
Enzyme activity
ELISA
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 noscapine. *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 Noscapine 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 through 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 Bahiraee, 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 Famarzi, 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. 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

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 medicine 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, Kajal 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, Kajal 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

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.

CONGRESS PRESENTATION AND PARTICIPATION:

Poster presentation:

1. **Zahra Rashidi**, Fardin Amidi, Ali Talebi, Kajar 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 1st 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. 1st Conference on biology & Biotechnology 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)

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