

**[Tayebe, Artimani] Ph.D**



***Associate professor in reproductive of biology***

Hamadan University of Medical Sciences

Hamadan

Postal code: 65178-3-8736

***Telephone: 09183159277 e-mail: t14\_artimani@yahoo.com***

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**PERSONAL DATA**

DATE OF BIRTH:

- 1971-3-21

PLACE OF BIRTH

- HAMADAN

LANGUAGES

- Persian

Marital Status:

- Married, Female
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Mailing Address:

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**1. Anatomy Department, School of Medicine, Hamadan  
University of Medical Sciences, Hamadan, Iran**

**2. Fertility and Infertility Research Center, Hamadan  
University of Medical Sciences, Hamadan, Iran  
Tel/Fax: 0098-811-8380208**

[artimani@umsha.ac.ir](mailto:artimani@umsha.ac.ir)

[T14\\_artimani@yahoo.com](mailto:T14_artimani@yahoo.com)

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## **EDUCATION**

|                          |   |
|--------------------------|---|
| 9/1994-5/1997<br>Esfahan | Esfahan University of Medical Sciences,<br><b>M. S. in midwifery education</b>  |
| 12/2010-2/2015<br>Tehran | Iran University of Medical Sciences,<br><b>Ph.D. in Reproductive of biology</b> |

## **PROFESSIONAL APPOINTMENTS**

|                              |  |
|------------------------------|--|
| 9/1997 –9/2014<br>Midwifery, | Hamadan University of Medical Sciences, School of Nursing &<br>Midwifery,<br><br>Hamadan<br><b>Academic member, education of midwifery</b>   |
| 9/2014 - present             | Hamadan University of Medical Sciences, School of Medicine,<br><b>Academic member, Anatomical Sciences and histology</b><br><b>Embryologist, Fatemieh infertility center, Hamadan,Iran</b> |

## **MEDICAL AND SCIENTIFIC SOCIETIES**

|                |   |
|----------------|---|
| 2014- present  | Iranian Society for reproductive MED                    |
| 2015 - present | Iranian Society for embryology and Reproductive biology |

## PUBLICATIONS

- Hazrati, P., Ramezani, M., Ahmadimoghaddam, D. et al. The effects of AdipoRon on cytochrome P450-related gene expression, acute steroidogenic regulatory protein, and structure of ovary in polycystic ovary syndrome model. J Assist Reprod Genet 40, 2453–2461 (2023). <https://doi.org/10.1007/s10815-023-02900-1>
- Haghighi M, Mehdizadeh M, Amjadi F, et al. Effects of myo-inositol plus folic acid on ovarian morphology and oocyte quality in PCOS mouse model. Zygote. 2023;31(2):111-122. doi:10.1017/S0967199422000557
- Salehi Novin, M., Mehdizadeh, A., Artimani, T., Bakhtiari, M., Mehdizadeh, M., Aflatoonian, R., & Zandieh, Z. (2023). MACS-DGC sperm preparation method resulted in high-quality sperm, top-quality embryo, and higher blastocyst rate in male factor infertile couples with high DNA fragmented sperm. Human Fertility, 26(6), 1408–1416.
- Amir Nili-Ahmadabadi a b, Tayebe Artimani c, Asal Sepehr b, Zahra Farzaneh Kaloorazi b, Yasaman Behnamfar b, Amir Larki-Harchegani a b, Akram Ranjbar a b, Dara Dastan a d, Masoumeh Taheri Azandaryani e, Davoud Ahmadimoghaddam. The effect of saffron and its constituent, crocin, on anterior pituitary-gonadal axis during pregnancy in the rat: A time-course study. South African Journal of Botany Volume 148, August 2022, Pages 33-38
- Rabiei N, Bahreini F, Yavangi M, Artimani T, Mohammadpour N. Knowledge and Attitude of Infertile People toward Assisted Reproductive Techniques in Hamadan, Iran. Med J Islam Repub Iran. 2022 May 24;36:54.
- Asl, S.S., Jalili, C., Artimani, T., Ramezani, M., Mirzaei, F. Inflammasome can affect adult neurogenesis: A review article. Open Neurology Journalthis link is disabled, 2021, 15(1), pp. 25–30
- Sepide Gohari taban, Amiri I, Saidijam M, Yavangi M, Khanlarzadeh E, Mohammadpour N, Artimani T. ADAMTS proteoglycanases downregulation with impaired oocyte quality in PCOS. Archives of Endocrinology and Metabolism. 2021 Jan 18;65:60-6.
- Solqi T, Amiri I, Asl SS, Saidijam M, Seresht BM, Artimani T. Antiapoptotic and antioxidative effects of cerium oxide nanoparticles on the testicular tissues of streptozotocin-induced diabetic rats: An experimental study. International Journal of Reproductive Biomedicine. 2021 Jul;19(7):589.
- Asl SS, Jalili C, Artimani T, Ramezani M, Mirzaei F. Inflammasome can affect adult neurogenesis: A review article. The Open Neurology Journal. 2021 Jul 7;15(1).

- Yanangi M, Artimani T, Sajedi N, Poorolajal J, Pour Monsef F. Comparison of the Activated Peripheral Blood Mononuclear Cells with Human Placental Gonadotropin Method with Platelet-Rich Plasma on Pregnancy Success Rate after Embryo Transfer. Avicenna Journal of Clinical Medicine. 2020 Dec 15;27(3):133-9.
- Abshenas R, Artimani T, Amiri I, Shahidi S, Soleimani Asl S. Treadmill exercise improves memory and increases hippocampal BDNF in a rat model of Alzheimer's Disease. Physiology and Pharmacology. 2020 Dec 1:250-6.
- Monsef F, Artimani T, Alizadeh Z, Ramazani M, Solgi G, Yavangi M, Asl SS. Comparison of the regenerative effects of bone marrow/adipose-derived stem cells in the Asherman model following local or systemic administration. Journal of Assisted Reproduction and Genetics. 2020 Aug;37(8):1861-8.
- Artimani T, Najafi R. APPL1 as an important regulator of insulin and adiponectin-signaling pathways in the PCOS: A narrative review. Cell biology international. 2020 Aug;44(8):1577-87.
- Monsef F, Artimani T, Ramazani M, Alizadeh Z, Solgi G, Yavangi M, Asl SS. Effects of adipose-derived stromal vascular fraction on asherman syndrome model. Acta Histochemica. 2020 Jul 1;122(5):151556.
- Abshenas R, Artimani T, Shahidi S, Ranjbar A, Komaki A, Salehi I, Amiri I, Asl SS. Treadmill exercise enhances the promoting effects of preconditioned stem cells on memory and neurogenesis in A $\beta$ -induced neurotoxicity in the rats. Life sciences. 2020 May 15;249:117482.
- Abshenas R, Artimani T, Amiri I, Shahidi S, Najafi R, Soleimani Asl S. Effects of treadmill exercise and preconditioned bone marrow-derived mesenchymal stem cells transplantation on A $\beta$ -induced neurotoxicity in male rats. Koomesh. 2020 Apr 10;22(2):325-33.
- Yavangi M, Mohammadi I, Khansari S, Moradkhani S, Artimani T, Heidari Soureshjani S. The effects of Foeniculum vulgare seed extract on fertility results of assisted reproductive technology in women with poor ovarian response. International Journal of Women's Health and Reproduction Sciences. 2020;8(2):203-8.
- Esmailzade B, Artimani T, Amiri I, Najafi R, Shahidi S, Sabec M, Farzadinia P, Zare M, Zahiri M, Asl SS. Dimethylglycine preconditioning enhances protective effects of bone marrow-derived mesenchymal stem cells in A $\beta$ -induced Alzheimer disease. Physiology & behavior. 2019 Feb 1;199:265-72.
- Yavangi M, Heidari-Soureshjani S, Sadeghian A, Artimani T. Comparison of Endometrial Thickness with Concomitant Administration of Sildenafil Citrate and

Ethinyl Estradiol vs Ethinyl Estradiol Alone for Frozen Embryo Transfer. JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH. 2019 Jan 15;13(1).

- GohariTaban S, Amiri I, Asl SS, Saidijam M, Yavangi M, Khanlarzadeh E, Mohammadpour N, Shabab N, Artimani T. Abnormal expressions of ADAMTS-1, ADAMTS-9 and progesterone receptors are associated with lower oocyte maturation in women with polycystic ovary syndrome. Archives of gynecology and obstetrics. 2019 Jan 14;299(1):277-86.
- Gharebaghi A, Ranjbar A, Artimani T, Mirzaeiseresht B, Soleimani Asl S. The effect of cerium oxide nanoparticles on memory impairment and antioxidant capacity in streptozotocin-induced diabetic rats. Physiology and Pharmacology. 2019 Jan 1;23(3):183-8.
- Artimani T, Amiri I, Soleimani Asl S, Saidijam M, Hasanvand D, Afshar S. Amelioration of diabetes-induced testicular and sperm damage in rats by cerium oxide nanoparticle treatment. Andrologia. 2018 Nov;50(9):e13089.
- Gohari Taban S, Amiri I, Saidijam M, Soleimani Asl S, Yavangi M, Khanlarzadeh E, Artimani T. ADAMTS-1 Expression in Cumulus Cells: A Biomarker for Oocyte Maturity. Avicenna Journal of Clinical Medicine. 2018 Mar 15;24(4):263-9.
- Rahimi A, Amiri I, Roushandeh AM, Choshali ZG, Alizadeh Z, Artimani T, Afshar S, Asl SS. Sublethal concentration of H<sub>2</sub>O<sub>2</sub> enhances the protective effect of mesenchymal stem cells in rat model of spinal cord injury. Biotechnology letters. 2018 Mar;40(3):609-15.
- Artimani T, Karimi J, Mehdizadeh M, Yavangi M, Khanlarzadeh E, Ghorbani M, Asadi S, Kheiripour N. Evaluation of pro-oxidant-antioxidant balance (PAB) and its association with inflammatory cytokines in polycystic ovary syndrome (PCOS). Gynecological endocrinology. 2018 Feb 1;34(2):148-52.
- Hasanvand D, Amiri I, Soleimani Asl S, Saidijam M, Shabab N, Artimani T. Effects of CeO<sub>2</sub> nanoparticles on the HO-1, NQO1, and GCLC expression in the testes of diabetic rats. Canadian journal of physiology and pharmacology. 2018;96(9):963-9.
- Artimani T, Shabanian S, Heidari-Soureshjani S, Asadi-Samani M, Luther T. A review of Iranian medicinal plants with teratogenic and abortion-inducing side effects. International journal of pharmaceutical sciences and research. 2017;8(6):2372-7.
- Dehghan R, Saidijam M, Mehdizade M, Shabab N, Yavangi M, Artimani T. Evidence for decreased expression of APPL1 associated with reduced insulin and adiponectin receptors expression in PCOS patients. Journal of endocrinological investigation. 2016 Sep;39(9):1075-82.

- Artimani T, Saidijam M, Aflatoonian R, Ashrafi M, Amiri I, Yavangi M, SoleimaniAsl S, Shabab N, Karimi J, Mehdizadeh M. Downregulation of adiponectin system in granulosa cells and low levels of HMW adiponectin in PCOS. Journal of assisted reproduction and genetics. 2016 Jan 1;33(1):101-10.
- Artimani T, Saidijam M, Aflatoonian R, Amiri I, Ashrafi M, Yavangi M, Mehdizadeh M. Follicular fluid concentrations of interleukin-6, Interleukin-8, TNF-[alpha] and interleukin 10 in polycystic ovarian syndrome women. International Journal of Fertility & Sterility. 2015 Jul 1;9:75.
- Artimani T, Saidijam M, Aflatoonian R, Amiri I, Ashrafi M, Shabab N, Mohammadpour N, Mehdizadeh M. Estrogen and progesterone receptor subtype expression in granulosa cells from women with polycystic ovary syndrome. Gynecological Endocrinology. 2015 May 4;31(5):379-83.
- Asl SS, Mehdizadeh M, Shahraki SH, Artimani T, Joghataei MT. Sex differences in MDMA-induced toxicity in Sprague-Dawley rats. Functional neurology. 2015 Apr;30(2):131.
- Artimani T, Saidijam M, Aflatoonian R, Amiri I, Ashrafi M, Yavangi M, Shabab N, Mehdizadeh M. Comparisons of adiponectin and adiponectin receptors in human granulosa cells in obese and non-obese patients with poly cystic ovary syndrome. In HUMAN REPRODUCTION 2014 Jul 1 (Vol. 29, pp. 310-311). GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND: OXFORD UNIV PRESS.
- Artimani T, Saidijam M, Aflatoonian R, Amiri I, Ashrafi M, Yavangi M, Shabab N, Mohammadpour N, Mehdizadeh M. P-228: Altered Expression of Folliclestimulating Hormone Receptor and Luteinizing Hormone Receptor in Granulosa Cells from Women with Polycystic Ovary Syndrome. International Journal of Fertility and Sterility. 2014 Jul 1;8(2.5):238-.
- Aghababaii S, Artimani T, Mahjoob H, Shobeiri F. Assessing the infant's breastfeeding in Hamadan city, Iran. SJMMS. 2014;2(10):86-91.
- Artimani T, Aflatoonian R, Saidijam M, Amiri I, Yavangi M, Shabab N, Ashrafi M, Mehdizadeh M. Adiponectin gene expression in human granulosa cells of women with PCOS. Iranian Journal of Reproductive Medicine. 2013 Apr 2.
- Aghababaie S, Riazi H, Artimani T, Shobeiri F, Bakht R, Parsa P, SANGESTANI G, KHODAKARAMI B, SOLTANI F. Internal evaluation of mother and child & midwifery departments of Hamadan University of Medical Sciences.
- Soltani F, Artimani T. Evaluation the relationship between Menarch age & menstrual disorders. Avicenna Journal of Nursing and Midwifery Care. 2009 Nov 10;17(12):46-56.

- Sadeghi A, Artimani T, Hasanian M, Mohammadi MS, Mostafaie MR, Seraj M. Evaluation of Reach to Educational Goals in Theoretical Lessons in Nursing Students. Avicenna Journal of Nursing and Midwifery Care. 2008 Nov 10;16(2):13-23.
- Artimani T. Vaginal Fluid hCG Levels for Detecting Premature Rupture of Membranes. Avicenna Journal of Clinical Medicine. 2004 Jun 15;11(1):26-30.
- Yavangi M, Artimani T. Assessment the Effect of Maternal Oxygen Administration on Umbilical Cord Blood Gas Values During the Second Stage.

## **RESEARCH PROJECTS**

*The Study of cerium oxide nanoparticles on the Nrf2-antioxidant system, Spermatogenesis and Sperm DNA fragmentation levels in STZ induced diabetic male rats,2016, Artimani.T*

*The Study of the level of expression of adiponectin and APPL1 genes and its relationship with the expression of insulin and adiponectin receptors in granulosa cells of patients with polycystic ovary syndrome.2016,Artimani T.*

*Combined effects of cerebral dopamine neurotrophic factor and preconditioned bone marrow- driven mesenchymal stem cells in contusion spinal cord injury.2016*

*Differentiation of DMOG preconditioned stem cells into nerve cells and effect of that on amyloid-beta- induced alzheimer model in adult male rats.2016*

*The Study of Gene expression of "A Disintegrin and Metalloproteinase with Thrombospondin-Like Repeats"(ADAMTS) 1-4-5 and 9 in cumulus cell and association with oocyte quality in polycystic ovary syndrome(PCOS) patient. 2017, Artimani.T*

*The Study of Oxidative stress and Cytokines levels in follicular fluid of women with polycystic ovary syndrome(PCOS).2017. Artimani.T*

*The study of transplantation of bone marrow mesenchymal stem cells treated with Melatonin on treatment of Alzheimer's model in rat .2016*

*Effects of platelet-rich plasma on levels of genes and proteins involved in implantation and reproduction in human uterine endometrial cells.2019. Artimani.T*

*Effects of platelet-rich plasma on levels of genes and proteins involved in inflammation in human uterine endometrial cells. 2019, Artimani. T*

*The effects of treadmill exercise and preconditioned bone marrow- driven mesenchymal stem cells on amyloid- beta- induced alzheimer disease in adult male rats.2019, Artimani. T*

*The Study of cerium oxide nanoparticles on levels of apoptosis and oxidative stress in testis by STZ induced diabetic male rat.2019, Artimani. T*

*The effect of green tea pills and metformin on the Nrf2-antioxidant system and proinflammatory cytokines, including IL-6 and TNF- $\alpha$ , in peripheral blood mononuclear cells of women with polycystic ovary syndrome. 2019, Artimani. T*

*The Study of effect of Adiporon on histology and adiponectin downstream targets includingin APPL1,AMPK and PPAR $\alpha$  in the ovary Of Letrozole-Induced Polycystic Ovaries in the mouse2020, Artimani. T*

*The Study of effect of Adiporon on histology and adiponectin downstream targets includingin APPL1,AMPK and PPAR $\alpha$  in the ovary Of Letrozole-Induced Polycystic Ovaries in the mouse.2020, Artimani. T*

*Effects of Intravenous immunoglobulin (IVIg) treatment on CD56+16+ and Th1:Th2 Levels in patients with repeated unexplained in vitro fertilization failure.2020, Artimani. T*

*Comparing two treatment protocols administered PBMC activated PRP HCG and pregnancy after embryo transfer success rate.2020, Artimani. T*

*Evaluating the Effect of Saffron (Crocus Sativus) on abortion Parameters During Pregnancy in Wistar Rat.2019, Artimani. T*

*Comparison of the effects of Stromal vascular fragment and Bone marrow and addipose –derived Stem cells transplantation on the endometrium in Ashermans syndrom model.2020, Artimani. T*

*Investigation the Effects of Hydroalcoholic Extract of Japanese lantern (Physalis alkekengi) on the levels of gonadotropins and prolactin affecting fertility and pregnancy in rat. 2019, Artimani. T*

*Evaluating the Effect of Stachys lavandulifolia on Changes in Oxytocin and Prostaglandin E2 Levels During Pregnancy in Wistar rats. 2019, Artimani. T*

*Evaluating the Effect of Crocin on abortion Parameters During Pregnancy in Wistar Rat. 2020, Artimani. T*

*Study the protective effect of zinc on testicular changes and spermatogenesis index in male rats treated with acetaminophen and ibuprofen. 2020, Artimani.T*

*Investigation the effects of systemic administration of Hydrogen Sulfide (H<sub>2</sub>S) on oxidative stress, expression of IL-1 $\beta$ , TNF- $\alpha$ , BAX and BCL-2 genes and testicular tissue structure, sperm parameters and serum oxidative stress in rats fed high fat diet. 2020, Artimani.T*

*Investigating the effect of Adiporon on the expression of Cytochrome P450 genes and steroidogenic acute regulatory (StAR) protein and structure of ovary in the mouse polycystic ovary syndrome model. 2020, Artimani.T*

*Study the protective effect of zinc on testicular changes and spermatogenesis index in male rats treated with acetaminophen and ibuprofen. 2020, Artimani.T*

*The study of biological features of menstrual blood-isolated mesenchymal stem cells in different age groups. 2020, Artimani.T*

*Evaluation of the effects of zinc oxide nanoparticle on antioxidant enzyme activity and histological changes of liver, intestine, kidney, heart, pancreas, testis, and brain of rats. 2021, Artimani.T.*

*The evaluation of biscaya effects on pregnancy hormones in wistar rats. 2021, Artimani.T.*

*Clinical trial of efficacy and safety of mesenchymal stem cell transplantation in patients with COVID-19 pneumonia. 2021, Artimani.T*

*Effects of hyaluronic acid- loaded decellularized human amniotic membrane and mesenchymal stem cells on the treatment of rabbit skin wound. 2021, Artimani.T*

*Investigation of presence of three novel microRNAs found in testicular tissue in seminal plasma of fertile men. 2021, Artimani.T*

*The evaluation of knowledge and attitude of infertile towards assisted reproductive techniques 2021, Artimani.T*

*Determining the status (quality) of sperm parameters in men referred to endometrium and endometriosis research Center Hamedan during 1397 \_ 1400.*

Skills:

- ART (Assisted Reproductive Techniques): ICSI, IVF, Sperm preparation Techniques, embryo culture, vitrification (embryo, oocyte and sperm) and ....
- MACS
- Cell Culture

- ELISA
- PCR and Real time PCR
- RNA and DNA isolation
- IVF in animal model
- Teaching embryology, female and male genital anatomy. Obstetrics and gynecology, sexual disorders and ... for 23years, Hamedan university of Medical Sciences, Hamedan , Iran