

IN THE NAME OF GOD

**PERSONAL INFORMATION:**

NAME: Mandana Beigi Boroujeni

Place of Birth: Boroujen, IRAN

E-mail: [mandbe2000@yahoo.com](mailto:mandbe2000@yahoo.com)

**EDUCATIONAL RECORDS:**

B.Sc: Biology, Esfahan Univ. Iran.

M.Sc: Anatomy, Tarbiat Modares Univ. Iran.

Ph.D: Anatomy, Tarbiat Modares Univ. Iran

**ACADEMIC EXPERIENCES & COURSES TAUGHT:**

Lecturer and researcher from 2000 to now. I taught 300 credits in university.

**MEMBERSHIP OF SCIENTIFIC SOCIETIES:**

Iranian Anatomical Science Society

Iranian Society for Reproduction Med

**PROFESSIONAL EXPERIENCES:**

ART technique

Stem cells (Embryonic and Adult stem cell) and tissue culture techniques

RT-PCR analysis

Immunohistochemistry and Immunocytochemistry

Transmission and scanning electron microscopy technique

Embryo manipulation

Embryo culture

Tissue processing and staining for light microscopic study

Cell transplantation technique

## **RESEARCH INTERESTS:**

Differentiation of Embryonic Stem Cells and adult stem cells

Molecular techniques

In Vitro Development of Embryo

## **RESEARCH PUBLICATIONS:**

1. Morphological Changes in Mouse Endometrium after Ovarian Hyperstimulation During Implantation Period. *Medical J of Yazd Univ.* 2003; 11(4): 90-96.
2. Mouse Endometrium Glycocalyx Alteration after Ovarian Hyperstimulation. *Medical J Yakhteh,* 2003, 4: 16, 213-218.
3. The impact of ovarian stimulation on mouse endometrium: a morphological study. *Iranian Journal of Reproductive Medicine,* Vol. 4, No.1, May 2006, pp. 7-11 .
4. Delayed Decidualization and Ultrastructural Changes of Mouse Endometrium After Ovarian Hyperstimulation at the Implantation Time. *Middle East Fertility J, (English)* 2003 8, 3: 229- 234.
5. Comparison between Different Doses of BMP4 and EPO on Differentiation of Embryonic Stem Cells to Erythroid Colonies. *Blood (Farsi)* 3 (4) -303-342, 2007.
6. Comparison of gene expression profiles in erythroid like cells, derived from mouse embryonic stem cells differentiate in simple and co-culture system. *Am j Hematol.* 2008 Feb; 83(2)109-115.
7. The histological characteristics of cultured oral epithelium in different culture conditions. *Iranian Biomedical Journal.*13 (2):109-115 (april2009).
8. Transplantation and homing of mouse embryonic stem cells treated with erythropoietin in spleen and liver of irradiated mice. *Iranian Biomedical Journal*13 (2):87-94 (april2009).
9. The effect of BMP4 on the differentiation of mouse embryonic stem cell to erythroid lineage in serum free and serum supplemented media. *International Journal of Biomedical Science.* 5(3):2009.
10. Effects of epigallocatechin gallate on tissue protection and functional recovery after contusive spinal cord injury in rats. *Brain Research. Brain Res.* 2010 Jan 8;1306:168-75. Epub 2009 Oct 6.

11. Study of Neuroprotective Effects of Green Tea Antioxidant on Spinal Cord Injury of Rat. Anatomical Sciences, Vol 7, Autumn 2009 & Winter 2010, Pages 145-152.
12. Effect of Ovarian Stimulation on the Endometrial Apoptosis at Implantation Period. Iranian Biomedical Journal. 14(4),2010 OCT page171-177.
13. Ovarian induction, Endometrium and Implantation. 12 (5), winter 2011.
14. Ultrastructural Changes of Corpus Luteum after Ovarian Stimulation at Implantation Period. . Iranian biomedical journal.16(1):33-7.2012.
15. The Effect of Group Discussion on Learning of Anatomy for Midwifery Students and Attitude of Students toward it. Aflak.4(12-13) 2008.
16. Effect of high- dose ( $\times$  mg/kg) of Aspirin on ovary tissue during implantation period in mice.14 (2): yafteh; 2013
17. Ovarian stimulation by exogenous gonadotropin decreases the implantation rate and expression of mouse blastocysts integrins. Iranian biomedical journal. 18(1):8-15.2014.
18. The Effect of low dose of aspirin on the vascular density of endometrial in mice at implantation period., ilam university medical sciences journal. Ilam University of Medical Science, Volume:23 Issue:4, 2015 63 - 70
19. The effect of low-dose of aspirin on uterine NK cells number in mice at day 7 of pregnancy. Iranian Biomedical Journal
20. Low-Dose Aspirin and Uterine Natural Killer Cells in Mice at Day Seven of Pregnancy.JENTASHAPIR JOURNAL OF HEALTH RESEARCH (JENTASHAPIR) DECEMBER 2015 , Volume 6 , Number 6; Page(s) 16 To 20.
21. Effects of pomegranate peel extract on histopathology, testosterone levels and sperm of testicular torsion-detorsion induced in adult Wistar rats. Journal of Complementary & Integrative Medicine, 22 Jul 2017, 14(4)

22. Effect of vitE and C on seminiferous structure of freeze-thaw immature mouse testis. *Zahedan j of research in medical science*. 2016 July; 18(7):e7558.
23. A rare variation of the human median nerve direction. *Jentasharir j health res* published online 2016
24. Application of gel based proteomic technique in female reproductive investigations. 2015: 39:217
25. The effect of progesterone treatment after ovarian induction on endometrial VEGF gene expression and its receptors in mice at pre-implantation time 2016 Mar; 19(3): 252–257.
26. The effect of aloe vera on the expression of wound healing factors (TGFβ1 and bFGF) in mouse embryonic fibroblast cell: In vitro study. *Biomed Pharmacother*. 2017 Apr;88:610-616.
- 27 Coenzyme Q 10 protect gastrocnemius muscle from ishchemia-reperfusion. *Journal of surgical research Perfusion*. 2017 Jul;32(5):372-37
28. Role of progesterone administration in hyperstimulated mice on quantative changes of the endometrium at implantation period. *ilam university medical sciences journal*. 23:(4). 2016
29. Reporting a lethal drug interaction occu-rred during evaluation of insulin resistance in mice polycystic ovary model. *Bangladesh J Pharmacol* 2018; 13: 132-133
- 30.The Effect of Progesterone Administration on the Number of Secondary Follicles of Ovulated Mice During Pre-Implantation.. *journal of knowledge and health*. 2019 ,14;1
31. Effect of selenium on freezing-thawing damage of mice spermatogonial stem cell: a model to preserve fertility in childhood cancers.stem cell investigation 2019.36.1

book:

1. Anatomy of the limbs, Mandana Beige boroujeni, Afshin Hasanvand, Leila Narimani, Meysam Rasouli. venous 2015
2. Question of embryology. Peyghambari f, Beige boroujeni M, Makki M. Sobhan 2013

**LIST of PAPERS PRESENTED in CONGRESSES AND SEMINARS:**

1. Ultrastructure of Stimulated Endometrium (2001) The 17<sup>th</sup> World Congress on Fertility -and Sterility IFIS 2001, 25-30 Nov, Melbourne.
2. Morphological changes of Mouse Endometrium after ovarian hyperstimulation during implantation period. 9<sup>th</sup> Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
3. Morphological changes of Mouse Endometrium Morphological changes of Mouse Endometrium after ovarian hyperstimulation at Preimplantation Time. 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran, Iran. .
4. The Effect of Progesterone After Ovarian Hyperstimulation on the Ultrastructure of Mouse Endometrium During Preimplantation and Implantation Period. 5<sup>th</sup> Int Congress of Obstet and Gyncol, 8-11 Dec 2003, Tehran, Iran.
5. The effect of ovarian hyperstimulation using HMG and HCG on the mouse endometrium. 7<sup>th</sup> Biochemistry congress. Ahwasz ۲۰۰۳ 6-9 bahman. Iran.
6. Development of Isolated Blastomeres from 4 Cell Mouse Embryo in the Presence of LIF. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, 3-5 may. Shiraz, Iran.
7. Morphometrical Studies of Stimulated Endometrium. The 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, 30 oct-2 nov, 2002, Jordan.
8. Ultrastructural of mouse endometrium. 1 st Yazd International student award and congress in reproductive medicine, Yazd, Iran, 28-29 Dec 2005.
9. The effect of different concentration of EPO on differentiation of embryonic stem cell to erythroid colony. 2006, 7<sup>th</sup> Iranian Congress of Anatomical science, Kashan, Iran.
10. Gene expression profile in erythroid like cells derived from embryonic stem cells. 2006, If 2006 Indo-French congress on Gynecologic Endoscopy, Ultrasound & Infertility 23-26 Nov 2006 Varanasi, India.

11. Transplantation and Homing of Treated Embryonic Stem Cells with Erythropoietin. 2007, 23th Annual Meeting of the European Society of Human Reproduction and Embryology, 1-4 July 2007. Lyon, France.
12. The effect of co-culture system and erythropoietin on differentiation of embryonic stem cells into erythroid colonies and the ability of the differentiated cells on colony formation *in vivo*. 2nd international of student award and congress in reproductive medicine, Yazd, Iran, 11-13 May, spring 2007.
13. Study of Neuroprotective Effects of Green Tea Antioxidant on Spinal Cord Injury of Rat. The 9<sup>th</sup> Iranian congress of anatomical sciences. Hamedan Iran. 25-28 May 2010.
14. Vestigial limbs. The 9<sup>th</sup> Iranian congress of anatomical sciences. Hamedan Iran. 25-28 May 2010.
15. Effect of extraction of rose on the reproduction of male rat. The 9<sup>th</sup> Iranian congress of anatomical sciences. Hamedan Iran. 25-28 May 2010.
16. The role of BMP4 on gene expression in differentiation mesenchymal stem cell into hair cells. 2009 Blackwell Publishing Ltd. Clinical Otolaryngology meeting. Edinburgh.
17. Effect of hyperstimulation on the apoptosis of endometrium at implantation time. 13th world congress on human reproduction 2009. 3-8 March. Venice, Italy.
18. Effect of ovarian hyperstimulation on the apoptosis of corpus luteum during luteal phase at implantation period. ASPIRE 3<sup>RD</sup> congress of the Asia Pacific Initiative on Reproduction. 9-11 April 2010. Thailand
19. The effect of ovulation induction on the expression of integrins in mouse embryo at blastocyst stage. ESHRE. Stockholm, Sweden 2011. 3-6 July.
20. The Effect of Group Discussion on Learning of Anatomy for Midwifery Students and Attitude of Students toward it. 12<sup>th</sup> Iranian medical education conference. 1-3 May. Mashhad, Iran. 2011.
21. Effect of high-dose (100 mg/kg) of Aspirin on ovary tissue during implantation period in mice. The 11<sup>th</sup> Iranian Congress of Anatomical Science, 19-21 Feb 2014, Ahwaz, Iran.
22. Effect of ovarian induction on vascular density of mouse endometrium at implantation period. 19<sup>th</sup> national and 6<sup>th</sup> international congress of biology in Iran. 26-29 August 2014. Tehran Kharazmi University 2014.

**Research Proposal:**

1. Effect of hyperstimulation on the apoptosis of endometrium at implantation time. Supervisor; Mandana Beigi Boroujeni

2. Evaluation of expression of hemoglobin gene by hematopoietic cells derived from mouse embryonic stem cell in in-vitro. Supervisor: Mojdeh Salehnia. Collaborator: Mandana Beigi Boroujeni.
3. Effect of hyperstimulation on the ultrastructure of corpus luteum at implantation time Supervisor; Mandana Beigi Boroujeni
4. Effect of hyperstimulation on the integrin genes in embryo of mouse. Supervisor; Mandana Beigi Boroujeni
5. Study of Neuroprotective Effects of Green Tea Antioxidant on Spinal Cord Injury of Rat. Supervisor: Ali reza khalatbari. Collaborator: Mandana Beigi Boroujeni.
6. Effect of high-dose and low-dose of aspirin on ovary histology during implantation period. Supervisor: Fatemeh saki. Collaborator: Mandana Beigi Boroujeni
7. The effect of progesterone on the expression of VEGF and VEGF receptors after ovulation induction in uterus at preimplantation period. Supervisor: Mandana Beigi Boroujeni.
8. The effect of low dose of aspirin on the gonadotropian hormone level and endometrial morphology at implantation period. Supervisor; Mandana Beigi Boroujeni.
9. Evaluation of NK cells dispersion in the uterus tissue after treatment with low dose of aspirin at 7 day gestation. Supervisor; Mandana Beigi Boroujeni.
10. The effect of aloe vera gel on proliferation and angiogenic factor (TGFb and BFGF b) in fibroblast cell. Supervisor: Maryam Hormozi. Collaborator: Mandana Beigi Boroujeni.
11. The effect of preconditioning with oxygen on the survival of BM-mesenchymal stem cells against damages induced by oxidative stress and hypoxia in rat. Collaborator: Mandana Beigi Boroujeni

**Translation of book:**

Translation of questions of embryology book (author: James D Fix and Ronald W Dudek), march 2011.

**Management back ground:**

Research Management of school of medicine, Lorestan University of medical Sciences.

**Award:**

1. Distinguished lecturer in the Lorestan University of Medical Sciences in 2009.
2. One of the selected teacher in department of anatomy in Lorestan University of Medical Sciences due to attain the superior grade of students exam of anatomy of basic science.

**Students under supervision and co supervision:**

1. Elahe Marandi (medical student): under supervision
2. Fatemeh Saki (graduate student of development biology): under co supervision
3. Mehri Fayazi (graduate student of anatomy): under co supervision
4. Sedighe Momeni (graduate student of animal physiology): under supervision
5. Leila narimani (graduate student of anatomy): under supervision
6. Fatemeh peydayesh (medical student): under supervision