

## **RESUME (2021)**

**Mojdeh Salehnia**

**Dept. of Anatomy Tarbiat Modares University**

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### **I. PERSONAL INFORMATION**

Date of Birth: 04/02/1967

Sex: Female

Married with two children

Nationality: Iranian

### **CONTACT**

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### **II. EDUCATION**

- B.Sc: 1987, BIOLOGY, Esfahan Univ. Iran.
- M.Sc: 1990, HISTOLOGY & EMBRYOLOGY, Tarbiat Modares Univ. Iran.
- Ph.D: 2000, HISTOLOGY & EMBRYOLOGY, Tarbiat Modares Univ. Iran.

### **III. ACADEMIC WORK EXPERIENCES**

- Academy staff from 1992 to now (Professor), Dept. of Anatomy, School of Medical Science, Tarbiat Modares Univ., Tehran, Iran.
- Head of Anatomy Dept. from 2015-2020.
- Clinical embryologist in Khatamol Ambia Hosbital from 2010-2016 and 2020-2021.

### **IV. SCIENTIFIC POSITIONS**

Membership of:

- Iranian Infertility and Reproduction Society
- European Society for Human Reproduction and Embryology,
- Iranian Anatomical Science Society
- Iranian Embryology Society
- Editorial board of International Journal of Reproductive Medicine (IJRM)
- Editorial board of International Journal of Fertility and Sterility (IJFS)

### **V. INTERNATIONAL RESEARCH VISITORING**

- Exchange student (research visiting) at Monash University in Institute of Reproduction and Development under supervision of Ismail Kola (21 June - 30 Sept 1999).
- Sabbatical leave, University of Toyama Faculty of Medicine Department of Medicine, under supervision of Prof. Shigeru Saito (11 Jun to 11 Sept 2008).
- Sabbatical leave in IVF Lab and Obstetrics and Gynecology department of Karolinska Institute, Stockholm Sweden, Lab director; Monalill Lundqvist. (26 Jun - 2 Sept 2009)
- Guest Researcher at Department of Clinical Sciences, Technology and Intervention, Division of Obstet. and Gynecol. Under supervision of Prof. Otti Hovatta (28 Jun - 2 Sept 2009).
- Post graduate course: Clinical Achievements of Reproductive Medicine 11 Sept 2009.

### **VI. RESEARCH INTERESTS**

- Ultrastructure of Ovarian tissue (Following Cryopreservation and in Vitro Culture)

- Vitrification of Ovarian Tissue
- In Vitro Follicular Development and Maturation
- Study of Human and Mouse Ovarian Biology Including Apoptosis and Gene Expression in Response to IVM Conditions and Antioxidant Treatment
- Uterine Stem Cells Isolation and Their Usage in Implantation Models
- Oocyte Mitochondria and mt DNA Alterations After in vitro Maturation
- Preparation of Decellularized Tissue and Their Usage in Regenerative Medicine

## **VII. AWARDS**

- National Winner in 4<sup>th</sup> Royan International Research Award, Reproductive Biomedicine 2003, (Vitrification of Ovarian Tissue).
- Tarbiat Modares University Top Researcher 2003.
- Tarbiat Modares University Top Researcher 2004.
- National Winner in 5<sup>th</sup> Royan International Research Award, Reproductive Biomedicine, 2004, (Ultrastructural Histochemical and Morphological Studies of Mouse Reproductive Tract after Ovarian Induction).
- The Best Poster Presentation in the 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.
- Winner in 3<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2009, Yazd Iran. (Effect of Sodium Selenite on the Reactive Oxygen Species Production and Total Antioxidant Capacity during In Vitro Maturation of Mouse Preantral Follicles).
- Winner in 4<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2011, Yazd Iran, (The Correlation between the Endometrial Integrins and Osteopontin Expression with Pinopodes Development in Ovariectomized Mice in Response to Exogenous Steroids Hormones).
- Winner in 5<sup>th</sup> Yazd International Congress of Reproductive Medicine 2013, Yazd Iran, (Human Ovarian Tissue Vitrification as an Alternative Method for Assisted Reproduction).
- Winner in 5<sup>th</sup> Yazd International Congress of Reproductive Medicine 2013, Yazd Iran, (Cryopreservation of Ovarian tissue).
- Winner in 8<sup>th</sup> Yazd International Congress of Reproductive Medicine 2019, Yazd Iran, (Morphological, Ultrastructural and Molecular Aspects of In Vitro Mouse Embryo Implantation on Human Endometrial Stromal Cells in the Presence and Absence of Steroid Hormones as an Implantation Model).

## **VIII. TECHNICAL EXPERIENCES**

- Tissue Processing for Light and Electron Microscopy (Scanning and Transmission)
- Electron Microscopy Micrograph Evaluation
- Enzyme Histochemistry
- Cell and Tissue Culture
- Stem Cell Culture and Differentiation
- Immunohistochemical Technique
- Confocal Microscopy
- PCR and Real time RT-PCR
- Flow cytometry
- Ovarian Tissue Cryopreservation and Culture
- In Vitro Maturation of Follicles

- Assisted Reproduction Techniques:
- Sperm Preparation and Freezing
- IUI
- Oocyte Collection
- IVF Procedure
- ICSI (Doing more than 3000 cycles independently)
- Embryo Biopsy (more than 100)
- Embryo Transfer
- Oocyte and Embryo Cryopreservation

## **IX. RESEARCH GRANTS**

- Vitrification of Ovarian Tissue. Tarbiat Modares University, 2001.
- Embryonic Stem Cells Isolation and Their Hematopoietic Differentiation. Grant number: 8826, IRANIAN BLOOD TRANSFUSION ORGANIZATION, 2003.
- Evaluation of Hemoglobin Gene Expression in Hematopoietic Cells Derived from Embryonic Stem Cells In Vitro. Grant Number: 7697, INSTITUTE PASTEUR OF IRAN, 2007.
- Improvement of In Vitro Follicular Growth and Maturation. Grant Number: 8704, IRAN NATIONAL SCIENCE FOUNDATION (INSF), 2010.
- Improvement of Two Steps Culture of Human Vitrified Ovarian Tissue With Growth Factors and Its Effects on The Incidence of Apoptosis in Comparison With Mouse Samples. Grant Number: 89001734. IRAN NATIONAL SCIENCE FOUNDATION (INSF), 2014.
- Evaluation of Molecular and Surface Markers characteristics of Endometrial Stem Cells and Establishment of Endometriosis Model: Grant Number: IRANIAN STEM CELL FEDERATION, 2014.
- Determination of Mitochondrial DNA Copy Number, Enzyme Activity and ROS Production In Metaphase II Oocyte Derived From Vitrified Cultured Immature Mouse Ovarian Tissue. Grant Number: 93012238, IRAN NATIONAL SCIENCE FOUNDATION (INSF), 2016.
- Mouse Embryo Implantation on The Endometrial Like Cells Derived From Human Endometrial Mesenchymal Stem Cells. Grant Number: 965416 IRANIAN STEM CELL FEDERATION, 2017.
- The Effect of Lysophosphatidic Acid on Folliculogenesis of Transplanted Ovarian Tissue under Mouse Kidney Capsule. Grant Number: 965416. National Institute for Medical Research Development (NIMAD) 2021.
- Evaluation of Lysophosphatidic Acid Effects on the Cells Death and Folliculogenesis in Transplanted Ovarian Tissue. Grant Number 96013796. Iran National Science Foundation (INSF) 2021.

## **X. JOURNAL REVEIWER**

- Iranian Journal of Fertility and Sterility
- Fertility and Sterility
- Journal of Assisted Reproductive Genetics
- Andrologia
- Cell Journal
- Reproductive Biomed Online
- Journal of Histochemistry and Cytochemistry
- Frontiers in Cell and Developmental Biology

- Ecotoxicology and Environmental Safety (Elsevier)
- Journal of Cellular and Molecular Physiology
- International Journal of Reproductive Medicine (IJRM)
- Daneshvar
- Avicenna Journal of Medical Biotechnology
- J Reproduction and Infertility
- Modares J Med Science Pathobiology
- Physiology and Pharmacology
- Iranian Biomedical Journal
- Medical J of Yazd University
- Journal of Iranian Anatomical Sciences
- Iranian Biotechnology Journal

#### **XI. CONGRESS REVEIWER**

- Royan International Twin Congress
- Yazd International congress of reproductive Medicine
- Iranian Congress of Anatomy Sciences

#### **XII. CONGRESS KEY LECTURE**

- Vitrification of Ovarian Tissue. 4<sup>th</sup>Royan International Congress on Reproductive Biomedicine 2003
- Ultrastructural Histochemical and Morphological Studies of Mouse Reproductive Tract after Ovarian Induction. 5<sup>th</sup>Royan International Congress on Reproductive Biomedicine. 2004.
- Mouse Models of Abortion. 3<sup>rd</sup>Yazd International Congress of Reproductive Medicine 2009, Yazd Iran.
- The Effects of Different Transplantation Sites on Follicular Surviving and Apoptosis Incidence of Intact Whole Rat Ovaries after Autotransplantation. Royan Symposium 24, 25 Feb 2011.
- Artificial Ovary and Infertility: Application of Natural Extra Cellular Matrix in Ovarian Follicular Growth in Vitro. 15<sup>th</sup>Royan International Congress on Reproductive Biomedicine (3-5 September 2015)
- 8th IRHRC Annual Meeting of Reproductive and Infertility Updates 2015
- Mitochondria and Oocyte Maturation. 6<sup>th</sup>Yazd International Congress of Reproductive Medicine 2015, Yazd Iran,
- Assessment of the Vitrified Ovarian Tissue in Long Term Culture. 17<sup>th</sup>Royan International Congress on Reproductive Biomedicine (31 August-2 September 2016)
- In Vivo Implantation Model Using Human Endometrial Mesenchymal Stem Cells and Moue Blastocyst. World Congress On Gynecology and Obstetrics 2018, 20-21 Sept, Toronto Canada
- Preservation of Fertility in cancer patients. Oncofertility Symposium. 21th Jun 2018, Mahak.
- Biology and Application Aspect of Female Sex Cells Cryopreservation. 3<sup>rd</sup> Cryobiology and Cryobanking Symposium 27 Feb 2019 Royan Institute.
- Usage of Human Endometrial Mesenchymal Stem Cells in In Vitro Implantation. 8th Yazd Int. Congress and Student Award in Reproductive Medicine 2019.

- Usage of Human Endometrial Mesenchymal Stem Cells in Implantation Models. 8<sup>th</sup> Yazd International Congress of Reproductive Medicine 2019, Yazd Iran,
- Role of Mitochondria in IVM of Oocyte. Webinar on in Vitro Oogenesis (26 July 2020)
- Fertility Preservation in Cancer Patients. 5<sup>th</sup> Annually Gerash Oncofertility Congress. 6-7 Feb 2020 Gerash Medical University.
- Improvement of In Vitro Culture of Ovarian Tissue. International Congress on Veterinary Anatomical Sciences. Tehran Univ., 2021; 3-4 March.
- Reconstruction of Ovarian Tissue Using Stem Cells. Avecina Institute Webinar Application of Stem Cells in Regenerative Medicine in Treatment of Infertility (6<sup>th</sup> Aug 2021).

### **XIII. CONGRESS CHAIRPERSON**

- First ISERB congress of Iranian Fertility and Sterility Society, Panel Cryopreservation 2015
- 15<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015)
- 2nd ISERB Congress of Iranian Fertility and Sterility Society, Panel Fertility Preservation in Cancer Patients 2016
- 3rd ISERB Congress of Iranian Fertility and Sterility Society, Panel Fertility Preservation 2017
- 6<sup>th</sup> Yazd International Congress of Reproductive Medicine 2015, Yazd Iran,
- 17<sup>th</sup> Royan International Congress on Reproductive Biomedicine (31 August-2 September 2016)
- 7<sup>th</sup> Yazd International Congress of Reproductive Medicine 2017, Yazd Iran,
- 22<sup>nd</sup> Royan International Virtual Congress on Reproductive Biomedicine (1-3 September 2021)

### **VIX. CONGRESS REVIEWER (SCIENTIFIC COMMITTEE)**

- Royan International Congress on Reproductive Biomedicine
- ISERB congress of Iranian Fertility and Sterility Society
- Yazd Int. Congress and Student Award in Reproductive Medicine

### **XV. WORKSHOPS**

- Production of Embryonic Stem Cells (Tarbait Modares University, 26-27 Jan. 2002)
- Hematopoietic Bone Marrow Cell Culture (Tarbait Modares University, 28-29 Jan. 2002)
- IVM After Cryopreservation (ISERB 2015)
- Vitrification of Ovarian Tissue (ISERB 2015)
- Cryopreservation and IVC of Human Ovarian Tissue (3rd ISERB 2017)

### **XVI. BOOKS (Persian)**

- Stem Cells, 2002, ISBN: 7964-7539-02-9
- Experimental Embryology 2002, ISBN: 964-7539-03-
- General and Advance Techniques in Histology, 2003, ISBN: 964-7539-10X

### **XVI. RESEARCH FULL PAPERS**

- 1\* Vitrification of Metaphase II Mouse Oocyte Using Ethylene Glycol as Cryoprotectant. *Medical J. of Yakhteh*, 2000, 3; 25-32.
- 2\* Effect of Vitrification on the Survival and Development of MII Mouse Oocyte by Two Thawing Procedures. *Daneshvar*, 2000, 27: 81-86.
- 3\* Alkaline Phosphatase Histochemistry and Biochemistry in the Diagnosis of Hydatidiform Mole. *Pathology Oncology Research*, 2000, 20; 6(2) 105-110.
- 4\* Vitrification and Slow Freezing of MII Mouse Oocytes Using Ethylene Glycol and 1,2-Propandiol as Cryoprotectants. *J of Physiology and Pharmacology*, 2001, 5(4): 75-86.
- 5\* Slow Freezing of Metaphase II Mouse Oocyte Using 1, 2 propandiol as Cryoprotectant. *Medical J of Yazd Univ*, 2000, 8(3) 35-43.
- 6\* Histological Study of Vitrified Mouse Ovarian Tissue Using Ethylene Glycol. *Middle East Fertility J*, 2001 6(3) 233-38.
- 7\* Ultrastructure of Primary Follicles after Vitrification of Mouse Ovary. *Medical J of Yakhteh*, 2001, 3(9): 7-14.
- 8\* Placental Alkaline Phosphatase Changes in Hydatidiform Mole. *Medical J of Yakhteh*, 2001, 3(9): 27-30.
- 9\* Autograft of Vitrified Mouse Ovarian Tissue Using Ethylene Glycol as Cryoprotectant. *Experimental Animals*, 2002, 5(5) 509- 512.
- 10\* Ultrastructure of Follicles after Vitrification of Mouse Ovarian Tissue. *Fertility Sterility*, 2002, 78: 644-645.
- 11\* Study of Follicles in Grafted Vitrified Mouse Ovaries after HMG Stimulation. *Daneshvar J*, 2002, 9: 25-33.
- 12\* Ultrastructure of Stimulated Mouse Endometrium. *International Proceeding of IFIS 2001*, Melbourne, Australia, 25-30 Nov.
- 13\* Isolation of Mouse Embryonic Stem Cells from Blastocyst Stage. *Medical J of Yazd Univ*, 2003; 11(4): 49-57.
- 14\* Morphological Changes of Mouse Endometrium after Ovarian Hyperstimulation during Implantation Period. *Medical J of Yazd Univ*, 2003; 11(4): 90-96.
- 15\* The Effect of Progesterone After Hyperstimulation on the Ultrastructure of Mouse Endometrium During Preimplantation Period. *Med Yakhteh*, 2002, 4; 14: 61-67.
- 16\* Effects of Leukemia Inhibitory Factor on the Differentiation of Mouse Embryonic Stem Cells. *Iranian J of Reproductive Medicine (IJRM)*, 2003, 1: 1, 12-15.
- 17\* In vivo Studding of Bioceramics in Order to Replace the Bone Defects Due to Cancer Therapy. *Iranian Anatomical J*, 2003, 3; 39-46.
- 18\* CFU-GM colonies were Derived from Embryonic Stem Cells. *Iranian Biomedical J*, 2004, 8(1) 1-5.
- 19\* Mouse Endometrium Glycocalyx Alteration after Ovarian Hyperstimulation. *Medical J Yakhteh*, 2003, 4: 16, 173-223.
- 20\* Optimization of Dendritic Cells Purification from Mouse Spleen: A Recommended Method for Purification of Dendritic Cells from Reproductive Organs. *Medical J Reproduction & Infertility*, 2003, 4; 1: 17-29.
- 21\* Cryopreservation of Ovarian Tissue. *Medical J of Yazd Univ*, 2003; 11(4): 3-17.
- 22\* Evaluation of the Elastase Activity of Different *Aspergillus Fumigatus* Isolated from Human and Animal Cases. *Vet. J Tehran Univ*, 2003, 58; 2: 193-196.
- 23\* Autotransplantation of Mouse Neonatal Ovary after Vitrification. *Medical J Yakhteh*, 2003, 5: 18, 65-71.
- 24\* Effect of Ovarian Hyperstimulation and Progesterone Injection on the Morphology and Ultrastructure of Epithelium of Ampullary Portion of Mouse Ovarian Tissue. *Medical J Yakhteh*, 2003 5: 18, 103-108.

- 25\* Delayed Decidualization and Ultrastructural Changes of Mouse Endometrium after Ovarian Hypersimulation at the Implantation Time. *Middle East Fertility J*, 2003 8, 3: 229-234.
- 26\* The Morphological Expression of Endometrial Pinopodes During Implantation in Mice After Ovarian Stimulation and Progesterone Injection. *Yakhteh Medical J*, 2004, 5: 20.
- 27- Progesterone Shifts the Pinopodes Expression of Mouse Endometrium to Pre-Implantation Time after Ovarian Hyperstimulation. *Iranian J of Reproductive Medicine (IJRM)*, 2003, 1: 1, 20-23.
- 28- Localization and Activity of Mouse Endometrial Alkaline Phosphatase after Hyperstimulation and Progesterone Injection at the Implantation Time. *Iranian Biomedical J*, 2004; 8(3): 121-126.
- 29\* Survey of the Changes in Basement Membrane, Lysosomal Enzyme and Cell Death in Rat Palatal Shelves Development. *Kowsar Medical J*, 2004; 9(3): 177-185.
- 30\*The Comparison of Mouse Uterus Alkaline Phosphatase Activity at the Preimplantation Time after Ovarian Hyperstimulation and Progesterone Injection. *J of Iranian Anatomical Sciences*, 2003; 1 (3): 39-46.
- 31\*The Effect of Hyperstimulation and Progesterone Injections on the Morphology of Mouse Vaginal Epithelium. *J of Iranian Anatomical Sciences*, 2003; 1 (4): 1-9.
- 32\* Morphological and Cytochemical Characteristics of Purified Murine Splenic Dendritic Cells. *Iranian J of Allergy, Asthema and Immunology*, 2003; 2(3): 139-144.
- 33\* Differentiation of Mouse Yolk Sac Cells to Erythroid Cells in the Presence of Erythropoietin. *J of Iranian Anatomical Sciences*, 2004; 2 (3): 1-9.
- 34\* Improvement in Development and Quality of 8 Cell Mouse Embryo in the Presence of Granulocyte Macrophage Colony Stimulating Factor. *J of Iranian Anatomical Sciences*, 2004; 2 (3):23-27.
- 35\* The Effect of Different Concentration of GM-CSF on the Development of Pre-Implantation Embryos in Mice (pilot study). *Iranian J of Reproductive Medicine (IJRM)*, 2004, 2: 1, 12-14.
- 36\* Effect of Human LIF on the Development of 2 cell ICR Mouse Embryo. *Yakhteh Medical J*, 2003; 5 (17) 9-13.
- 37\* Inhibitory Effects of Decidual Culture Supernatants on Antigen Presentation by Dendritic Cells. *Med J Reproduction and Infertility*, 2004; 115-128.
- 38\* Morphological and Morphometrical Changes of Motoneurons of Axotomized Neonatal Rat. *Kowsar Medical J*, 2004; 8(1): 9-16.
- 39\* The Effect of Recombinant Human Leukemia Inhibitory Factor (rLIF) on In Vitro Development of Mouse 2 Cell Embryos and Their Isolated Blastomeres. *Daru*, 2004; 12(4) 165-169.
- 40\* Different Pattern of Pinopodes Expression in Stimulated Mouse Endometrium. *Exp Anim*, 2005, 54(4), 349-352.
- 41\* Developmental Potential and Ultrastructural Injuries of Metaphase II (MII) Mouse Oocytes after Slow Freezing or Vitrification. *J Assist Reprod Genet*, 2005, 22 (3), 119-127.
- 42\* Differentiation of Embryonic Carcinoma Cells P19 to Erythroid and Non Erythroid Cells in the Presences and Absence of Interleukin 3 and 6 and Erythropoietin. *Yakhteh Medical J*, 2005; 7 (25) 7-10
- 43\* Effect of Granulocyte Macrophage Colony Stimulating Factor on the Development of Two Cell Mouse Embryo. *Yakhteh Medical J*, 2005; 7, 25-28.
- 44\* Quality Effect of Co-Culturing of Yolk Sac Cells With M2-10B4 Line on Their Differentiation in the Presence and Absence of Erythropoietin. *Blood*, 2005; 2 (4).
- 45\* The Effect of Cumulus cells on in Vitro Maturation of Mouse Germinal Vesicle Stage. *Iranian J of Reproductive Medicine (IJRM)*, 2005, 34: 74-78.

- 46\* The Effect of Laser Therapy of 30 mW on Bone Repair: Histological Study. *J of Iranian Anatomical Sciences*, 2005; 3: 67-74.
- 47\* Changes in Implantation and Survival Rates and Embryo Quality Progesterone Administration and Ovarian Hyperstimulation. *J of Iranian Anatomical Sciences*, 2005; 3: 93-100.
- 48\* Evaluation of Alkaline Phosphatase Activity Alteration in Mouse Endometrium after Ovarian Hyperstimulation During Early Pseudo and Natural Pregnancy Until Implantation Time. *J of Iranian Anatomical Sciences*, 2005; 3:173-184.
- 49\* Evaluation of Acid Phosphatase Activity Alteration in Mouse Endometrium after Ovarian Hyperstimulation During Early Pseudo and Natural Pregnancy Until Implantation Time. *J of Iranian Anatomical Sciences*, 2005; 3:173-184.
- 50\* The Impact of Ovarian Stimulation on Mouse Endometrium: A Morphometrical Study. *Iranian J of Reproductive Medicine (IJRM)*, 2006, 4(1): 7-11.
- 51\* Analysis of Endometrial Myeloid Lymphoid Dendritic Cells During Mouse Estrous Cycle. *J of Reproductive Immunology*, 2006, 71: 28-40.
- 52\* A Comparative Study of Mouse Ovarian Alkaline Phosphatase Activity in Normal and Psuedopregnancy. *Yakhteh Medical J*, 2006; 8 (1):53-59.
- 53\* The Effect of Co-Culturing on the Differentiation of Embryonic Liver Cells With Embryonic Carcinoma Cells to Erythroid. *Medical J of Yazd Univ*, 2005 13: 58-63.
- 54\* The Effects of Different Concentrations of Leukemia Inhibitory Factor on the Development of Isolated Preantral Follicles From Fresh and Vitrified Ovaries. *Iranian Biomedical Journal*, 2006, 10: 185-190.
- 55\* Evaluation of Acid Phosphatase Activity Alterations in Mouse Ovary after Ovarian Hyperstimulation in Early Stages of Pseudo and Normal Pregnancy Until Implantation Time. *Med J Reproduction and Infertility*, 2006, 12-24.
- 56\* A Comparing Between Different Doses of BMP4 and EPO on Differentiation of Embryonic Stem Cells to Erythroid Colonies. *Blood*, 2006, 3: 333-342.
- 57\* The Efficient Isolation of Murine Splenic Dendritic Cells and Their Cytochemical Features, *Histochemistry Cell Biology* 2006, 126, 275-282.
- 58\* Kinetic of Decidual Dendritic Cells. (English) *Reproduction*. 2007, 133: 275-283.
- 59\* Follicular Phosphatases Activity and Their Correlation with Serum Estroid and Gonadotropin Hormones Level. *Medical J of Yazd Univ*, 2006, 14: 56-61.
- 60\* The In Vitro Fertilization Rate of Mouse Ova in the Absence and Presence of Recumbinant Leukemia Inhibitory Factor, *Pak J Med Sci*. 2006, 22: 438-441.
- 61\* Comparison of Gene Expression Profile in Erythroid Like Cells Derived from Mouse Embryonic Stem Cells Differentiation in Simple and Co-culture System, *Am J Hematol*. 2008; 83: 109-115.
- 62\* The Effect of Progesterone and Exogenous Gonadotropin on Preimplantation Mouse Embryo Development and Implantation, *Exp Anim*. 2008; 57: 27-34.
- 63\* Morphologic, Ultrastructural and Biochemical Identification of Apoptosis in Vitrified-Warmed Mouse Ovarian Tissue, *Fertil Steril*. 2008; 90: 1480-1486.
- 64\* Microenvironment of the Feto-Maternal Interface Protects the Semiallogenic Fetus Through Its Immunomodulatory Activity on Dendritic Cells, *Fertil Steril*. 2008; 90: 781-788.
- 65\* Comparisson of In Vitro Culture of Preanreal Follicle Isolated from Vitrified-Warmed Mouse Ovaries with Fresh Follicles in Culture Media. *Feyz*, 2007, 11: 13-19.
- 66\* Effect of Vitrification with Single Agent in Step Wise Manner Using Different Concentrations of Ethylene Glycol on the Morphology of Mouse Ovaries Tissue. *Feyz*, 2007, 12; 7-11.



- 67\* The Effect of Leukemia Inhibitory Factor and Co-Culture on the In Vitro Maturation and Ultrastructure of Vitrified and Non Vitrified Isolated Mouse Preantral Follicles. *Fertil Steril*. 2008; 90: 2389-2397.
- 68\* Ultrastructural Characteristics of Mouse Preantral Follicles Isolated from Vitrified and Non Vitrified Ovaries after In Vitro Maturation. *Yakhteh Medical J*, 2007; 9:184-189.
- 69\* The effects of different concentrations of sodium selenite on the in vitro maturation of preantral follicles in serum-free and serum supplemented media, *J Assist Reprod Genet* 2008; 25: 483-488.
- 70\* Developmental potential of isolated blastomeres from early mouse embryos in the presence and absence of LIF and GM-CSF. *J Assist Reprod Genet*, 2008; 25: 7-12.
- 71\* The changes in morphology and morphometrical indexes of endometrium of ovariectomized mice in response to exogenous ovarian hormones. *Iranian J Reprod Med* 2008;6(3):125-131.
- 72\* Ultrastructural study of isolated mouse preantral follicles co-cultured with cumulus cells with leukemia inhibitory factor. *Iranian Journal of Reproductive Medicine* 2008,16(4):187-192, Autumn.
- 73\* The histological characteristics of cultured oral epithelium in different culture conditions. *Iranian Biomedical Journal* 13 (2): 109-115 (April 2009)
- 74\* Analysis of apoptosis and its related genes expression in vitro cultured follicles derived from vitrified and non-vitrified ovary. *Mol Hum Reprod* 2009; 15(3) 155-164.
- 75\* 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 (April 2009).
- 76\* Comparison of ultrastructure and morphology of mouse ovarian follicles after conventional and direct cover vitrification using different concentrations of ethylene glycol. *Iranian Journal of Reproductive Medicine* 7(2): 45-52, Spring 2009.
- 77\* The changes of  $\alpha_v$ ,  $\beta_3$ ,  $\alpha_4$ ,  $\beta_1$  integrin expression and osteopontin ligand in murine estrous cycle. *Modares Medical Science J* 2009, 11(3,4): 1-7. Autumn and Winter.
- 78\* The effect of progesterone on the in vitro maturation and developmental competence of mouse germinal vesicle oocytes. *International Journal of Fertility and Sterility* 3(1), May-Jun 2009, Pages: 21-28.
- 79\* The effect of Bone Morphogenetic Protein 4 on the differentiation of mouse embryonic stem cell to erythroid lineage in serum free and serum supplemented media. *Int J BioMed Sci* 2009 5(3) ;100-107.
- 80\* Melatonin promotes the cumulus–oocyte complexes quality of vitrified–thawed murine ovaries; with increased mean number of follicles survival and ovary size following heterotopic transplantation. *European Journal of Pharmacology*. 618 (2009) 84–90.
- 81\* Comparison of different vitrification procedures on developmental competence of the mouse germinal vesicle oocytes in the presence or absence of cumulus cells. *International Journal of Fertility and Sterility* 3(3), Nov-Dec 2009, Pages: 111-118.
- 82\* Sodium selenite improves the in vitro follicular development by reducing the reactive oxygen species level and increasing the total antioxidant capacity and glutathione peroxidase activity. *Hum Reprod*. 2010 Apr;25(4):977-85.
- 83\* Effect of ovarian stimulation on the endometrial apoptosis at implantation period. *Iranian Biomedical Journal* 14(4):171-177 (Oct 2010).
- 84\* The correlation between the endometrial integrins and osteopontin expression with pinopodes development in ovariectomized mice in response to exogenous steroids hormones. *Iranian Biomedical Journal* 14(3):109-118 (July 2010).
- 85\* Study of noise effects on rabbit's hearing status using distortion product otoacoustic emissions. *Audiology*, 2011: 20(2), 113-124.

- 86\* Study of noise-induced hearing loss by distortion product otoacoustic emissions. *J Babol Univ Med Sci* 2011, 13(5), 34-43.
- 87\* The effect of ovarian stimulation on the distribution of uterine natural killer cell population on the 7<sup>th</sup> days of mouse pregnancy. *Modares Medical Science Pathobiology* 2011, 14(3): 35-42.
- 88\* Evaluation of mouse oocyte mitochondrial distribution in different developmental stages using confocal microscopy. *Modares Medical Science: Pathobiology* 2011, 14(3): 43-50, Autumn
- 89\* Inhibitory effects of menstrual blood stromal stem cells on generation of dendritic cells from peripheral blood monocytes. *Modares Medical Science: Pathobiology* 2011, 14(4): 24-36.
- 90\* Ultrastructural changes of corpus luteum after ovarian stimulation at implantation period. *Iran Biomed J.* 2012;16(1):33-7.
- 91\* Effects of whole body vibration on outer hair cells' hearing response to distortion product otoacoustic emissions. *In Vitro Cell Dev Biol Anim.* 2012 May;48(5):276-83.
- 92\* Assessment of the influence of whole body vibration on Cochlear function. *J Occup Med Toxicol.* 2012 Jun 21;7(1):12.
- 93\* Noise-induced Outer Hair Cells' Dysfunction and Cochlear Damage in Rabbits. *Iran Red Crescent Med J.* 2012 Oct;14(10):647-56.
- 94\* Temporary and permanent level shifts in distortion product otoacoustic emissions following noise exposure in an animal model. *Int J Occup Environ Med.* 2012 Jul;3(3):145-52.
- 95\* The effect of vitrification on mouse oocyte apoptosis by cryotop method. *Iran Biomed J.* 2013 Oct;17(4):200-5.
- 96\* Human ovarian tissue vitrification/warming has minor effect on the expression of apoptosis-related genes. *Iran Biomed J.* 2013 Oct;17(4):179-86.
- 97\* Does cryopreservation of ovarian tissue affect the distribution and function of germinal vesicle oocytes mitochondria? *Biomed Res Int.* 2013:489032.
- 98\* Effects of different cryoprotectant combinations on primordial follicle survivability and apoptosis incidence after vitrification of whole rat ovary. *Cryo Letters.* 2013;34(3):228-38.
- 99\* The effect of vitrification and in vitro culture on the adenosine triphosphate content and mitochondrial distribution of mouse pre-implantation embryos. *Iran Biomed J.* 2013;17(3):123-8.
- 100\* Apoptosis of human ovarian tissue is not increased by either vitrification or rapid cooling. *Reprod Biomed Online.* 2012 Nov;25(5):492-9.
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## **XVII. CONGRESS ABSTRACT PRESENTATION**

1\* Alkaline Phosphatase Histochemistry in Hydatidiform Mole. (1991) 10th International Congress of Physiology and Pharmacology. Ahvaz, Iran.

2\* Placental Alkaline Phosphatase as a Marker in Hydatidiform Mole. (1997) 3th Congress of Anatomy. Tehran, Iran.

3\* Alkaline Phosphatase Histochemistry and Biochemistry in Complete Hydatidiform Mole. (1998) 22th International Congress of Pathology. Nice, France.

4\* Survival, Fertilization and Developmental Rates of MII Mouse Oocytes after Vitrification in Ethylene Glycol. (1998) Middle East Fertility Society Annual Meeting. Amman, Jordan.

- 5\* Effect of Vitrification on the Survival and Development of MII Mouse Oocyte (1999) 4<sup>th</sup> Congress of Anatomy, Tehran, Iran.
- 6\* Placental Alkaline Phosphatase as a Marker for Diagnosis of Hydatidiform Mole. (1998) Middle East Fertility Society Annual Meeting. 18-20 Nov, Amman, Jordan.
- 7\* Comparison between Slow Freezing and Vitrification of MII Mouse Oocytes. (2000) UK Joint Summer Meeting of Fertility Society, 31<sup>th</sup> July-2<sup>th</sup> August, Edinburgh, England.
- 8\* Vitrification of Ovarian Tissue Using Ethylene Glycol. (2000) 7<sup>th</sup> Annual Meeting of the Middle East Fertility Society, 15-18 Nov., Beirut, Lebanon.
- 9\* Ultrastructural Changes of Primary Follicles After Vitrification Using Ethylene Glycol (2001) The 17<sup>th</sup> Annual Meeting of ESHRE, 1-4 July, Lausanne, Switzerland
- 10\* Autograft of Vitrified Mouse Ovarian Tissue Using Ethylene Glycol as Cryoprotectant (2001) The 17<sup>th</sup> Annual Meeting of ESHRE, 1-4 July, Lausanne, Switzerland.
- 11\* Changes of Heat Stable Alkaline Phosphatase in Hydatidiform Mole. (2001) First Iranian Congress of Cancer Research. 15-18 May Uromia, Iran.
- 12\* Vitrification of Ovarian Tissue as a Strategy for Preservation of Fertility of Infertile Patients (2001) First International Iranian Congress on Cancer, 11-13 Sep 2001, Mashhad Iran
- 13\* HMG Stimulation of Follicles in Grafted Vitrified Mouse Ovaries. (2001) 17<sup>th</sup> World Congress on Fertility and Sterility IFIS 2001, 25-30 Nov, Melbourne.
- 14\* Ultrastructure of Stimulated Endometrium (2001) 17<sup>th</sup> World Congress on Fertility and Sterility IFIS 2001, 25-30 Nov, Melbourne.
- 15\* Growth of Mouse Vitrified Testicular Tissue after Autograft. (2001) 17<sup>th</sup> World Congress on Fertility and Sterility IFIS 2001, 25-30 Nov, Melbourne.
- 16\* Ultrastructure of Primary Follicles after Ovarian Vitrification. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 17\* Isolation and Producing of Mouse Embryonic Stem Cells. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 18\* Follicular Stimulation After Vitrification of Ovarian Tissue Using HMG. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 19\* Histological Changes of Autographed Vitrified Testicular tissue. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 20\* Ultrastructure of Mouse Endometrium after Hyperstimulation 4.5 Days after Pregnancy. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 21\* Ultrastructure of Mouse Endometrium Using Progesterone 3.5 Days After Hyperstimulation. The First International Iranian Congress of Fertility and Sterility, 27-29 Oct 2001, Yazd, Iran.
- 22\* Production and Isolating of Mouse Embryonic Stem Cells. The 8<sup>th</sup> Annual Meeting of the Middle East Fertility Society, 7-10 Nov, 2001, Bahrain.
- 23\* Follicular Development after HMG Stimulation of Vitrified Mouse Ovarian Tissue. The 8<sup>th</sup> Annual Meeting of the Middle East Fertility Society, 7-10 Nov, 2001, Bahrain.
- 24\* Transplantation of Vitrified Mouse Ovarian Tissue. The 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.
- 25\* Culture and Production and Isolation of Mouse Embryonic Stem Cells in Vitro. The 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.
- 26\* 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.

27\*Effect of Progesterone on the Ultrastructure of Mouse Endometrium during Implantation Period after Hyperstimulation. 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.

28\*Ultrastructural Changes of Motoneuron Synapse during Early Period of Newborn Rat Axotomy. 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.

29\*Study of Vitri-fied Autografted Testicular Tissue in Mice. 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.

30\*Morphometry of Motoneuron Count during Early Period of Sciatic Axotomy in Newborn Rat. 5<sup>th</sup> International Congress of Anatomical Science, 13-15 Nov, 2001, Tehran Iran.

31\*Morphological Studies of Sertoli Cells of Bab/C Mice Following Different Doses of Cadmium Chloride Application. Toxicology Letters.

32\*In Vivo Studying of Bioceramics in Order to Replace the Bone Defects Due to Cancer Therapy. 2001, 10<sup>th</sup> Iranian Conference of Biomedical Engineering 31 Oct

33\* Effect of Progesterone on the Ultrastructure of Mouse Endometrium during Preimplantation Period after Hyperstimulation. 10<sup>th</sup> World Congress on the Menopause, 10-14 June 2002.Berlin.

34\* CFU-GM Colonies Were Derived from Embryonic Stem Cells. 7th Annual Meeting of the European Hematology Association – EHA 2002 Florence, Italy 6-9 June.

35\* Survival Rates of Follicles after Cryopreservation of Neonatal Mouse Ovaries. The 9th Annual Meeting of the Middle East Fertility Society, 30 Oct.-2 Nov, 2002, Cairo, Egypt.

36\*Glycocalyx Alteration of Mouse Endometrium after Hyperstimulation and Progesterone Injection. The 9th Annual Meeting of the Middle East Fertility Society, 30 Oct.-2 Nov, 2002, Cairo, Egypt.

37\*Effect of LIF on the Differentiation of Mouse Embryonic Stem Cells. The 9th Annual Meeting of the Middle East Fertility Society, 30 Oct.-2 Nov, 2002, Cairo, Egypt.

38\*Pinopodes Expression after Hyperstimulation and Progesterone Injection of Mouse Endometrium at the Preimplantation Time. The 9th Annual Meeting of the Middle East Fertility Society, 30 Oct.-2 Nov, 2002, Cairo, Egypt.

39\*Alkaline Phosphatase Activity in Apical Surface of Mouse Endometrium after Ovarian Stimulation and Progesterone Injection. The 19th Annual Meeting of ESHRE- Madrid 2003.

40\*Mouse Endometrial Pinopodes Expression during Implantation Window after Ovarian Stimulation and Progesterone Injection. 3<sup>rd</sup> Joint Meeting of the British Andrology Society, British Fertility Society and the Society for Reproduction and Fertility (Fertility 2003). Aberdeen Scotland 13-17 July 2003.

41\*Purification of Dendritic Cells from Mouse Spleen. 6<sup>th</sup> Iranian Congress of Immunology and Allergy. Iran Univ. of Medical Sciences, Tehran 7-9 May 2002.

42\* In Vitro Differentiation of Isolated Mouse Embryonic Stem Cells to CFU-GM Colonies. 3th Iranian Congress of Biotechnology, Mashhad, Iran, 2003.

43\* Evaluation of Alkaline Phosphatase Activity of Apical Surface of Mouse Endometrium after Ovarian Hyperstimulation and Progesterone Injection. 16<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Tehran, Iran 2003.

44\*Alkaline Phosphatase Activity in Apical Surface of Mouse Endometrium after Ovarian Stimulation and Progesterone Injection. 19<sup>th</sup> Annual Meeting of the ESHRE, Madrid, Spain, 2003.

45\* Differentiation of Embryonic Carcinoma Cells (P19) to Myeloid and Erythroid Linage. 8 Annual Congress of the European Hematology Association, Lyon, France 12-15 June 2003.



- 46\*Effect of Progesterone on the Morphology of Mouse Vaginal Epithelium after Hyperstimulation. The 10th Annual Meeting of the Middle East Fertility Society, Beirut, 10-13 Dec 2003.
- 47\*The Effect of GM-CSF on the Development of 8 cells Embryos. The 10th Annual Meeting of the Middle East Fertility Society, Beirut, 10-13 Dec 2003.
- 48\* Effect of GM-CSF on the Development of 2 Cells Embryos. The 10th Annual Meeting of the Middle East Fertility Society, Beirut, 10-13 Dec 2003.
- 49\* Leukemia Inhibitory Factor Enhance the Development of Eight Cell Embryos. The 10th Annual Meeting of the Middle East Fertility Society, Beirut, 10-13 Dec 2003.
- 50\* The Development of Two Cell Mouse Embryos Using Leukemia Inhibitory Factor. The 10th Annual Meeting of the Middle East Fertility Society, Beirut, 10-13 Dec 2003.
- 51\*The Correlation Between Transmission and Scanning Electron Microscopic Study for Evaluation of Endometrial Pinopodes Expression after Ovarian Hyperstimulation. 5<sup>th</sup> Int. Congress of Obstet. Gynecol. Tehran, 8- 11 Dec 2003.
- 52-\*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. Gynecol. Tehran, 8- 11 Dec 2003.
- 53\* Differentiation of Embryonic Carcinoma Cells (P19) by Co-culturing With the Mouse Fetal Liver Cells to Hematopoietic Cells. (Meeting abstract, France, EHA) Experimental Hematology, 31; 182, 2003.
- 54\* The Effect of Granulocyte- Macrophage Colony Stimulating Factor: One of Family of Epithelial Cell Derived Cytokines on Development of Mouse 2 Cell and 8 Cell Embryos. New Immunological Findings in Fertility and Sterility Symposium 2004, Isfahan, Iran.
- 55\* Immunoregulatory Activity of Supernatants from Short- Term Culture of Mouse Decidual Tissue on Antigen Presentation by Dendritic Cells. New Immunological Findings in Fertility and Sterility Symposium 2004, Isfahan, Iran.
- 56\* The Effect of Leukemia Inhibitory Factor to Enhance the Development of 2 and 8 Cells Mouse Embryos. New Immunological Findings in Fertility and Sterility Symposium 2004, Isfahan, Iran.
- 57\* Cytochemical Characteristics of Murine Splenic Dendritic Cells. The 7<sup>th</sup> Congress of Immunology and Allergy, 2004, Mashhad, Iran.
- 58\* TH2 Promoting Activity of Decidual Cell Cultures Supernatants on Dendritic Cells. The 7<sup>th</sup> Congress of Immunology and Allergy, 2004, Mashhad, Iran.
- 59\* Effect of Mouse Decidual Culture Supernatant on Antigen Presentation by Dendritic Cells. The 7<sup>th</sup> Congress of Immunology and Allergy, 2004, Mashhad, Iran.
- 60\* Analysis of Endometrial Myeloid and Lymphoid Dendritic Cells during Mouse Estrus Cycle. The 7<sup>th</sup> Congress of Immunology and Allergy, 2004, Mashhad, Iran.
- 61\* The Comparison of Survival Rates of Isolated Antral, Pre-Antral and Primary Follicles after Vitriification using Trypan Blue. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.
- 62\* Effect of LIF on the Improvement of Development of 2 and 8 Cell Mouse Embryos. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.
- 63\* Differentiation of Embryonic Carcinoma Cells (P19) to Hematopoietic Cells. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.
- 64\* Development of Isolated Elastomers from 4 Cell Mouse Embryo in the Presence of LIF. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.
- 65\* Effects of Basement Membrane, Lysosomal Enzymes and Cell Death on the Development of Mouse Palatine Shelves. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.

66\* Evaluation of Differentiation Induction of Mouse Yolk Sac Stem Cells to Erythroid Lineage Using Erythropoietin. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.

67\* Effects of Progesterone on the Mouse Vaginal Morphology after Superovulation. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.

68\* Improve the Development of 2 cell and Its Isolated Elastomers in the Presences of GM-CSF. The 6<sup>th</sup> Iranian Congress of Anatomical Science, 2004, Shiraz, Iran.

69\* Alkaline and Acid Phosphatase in Follicular Fluid. The 11th Annual Meeting of the Middle East Fertility Society, Jordan, 2004.

70\* Morphometrical Studies of Stimulated Endometrium. The 11th Annual Meeting of the Middle East Fertility Society, Jordan, 2004.

71\* Effect of Different Concentration of Progesterone on the Development of Two-Cell Mouse Embryo. The 11th Annual Meeting of the Middle East Fertility Society, Jordan, 2004.

72\* Development of Mouse Isolated Elastomers. The 11th Annual Meeting of the Middle East Fertility Society, Jordan, 2004.

73\* Effects of Progesterone on the Embryo Quality after Ovarian Induction. The 11th Iranian Congress of Fertility and Sterility, 2005, Tehran, Iran

74\* Acid Phosphatase Activity of Endometrium after Hyperstimulation During early Pseudopregnancy (Histochemical Studies). The 11th Iranian Congress of Fertility and Sterility, 2005, Tehran, Iran

75\* Alkaline Phosphatase Activity of Endometrium after Hyperstimulation During early Pseudopregnancy (Histochemical Studies). The 11th Iranian Congress of Fertility and Sterility, 2005, Tehran, Iran

76\* Evaluation the Acid Phosphatase Activity Changes of Mouse Endometrium after Hyperstimulation during Early Pregnancy until Implantation Time (Biochemical Studies). The 5<sup>th</sup> Annual Research Meeting of Iranian Medical Student, 2004, Mashhad, Iran.

77\* Pattern of Alkaline Phosphatase Activity after Mouse Hyperstimulation during Early Pseudopregnancy (Biochemical Studies). The 5<sup>th</sup> Annual Research Meeting of Iranian Medical Student, 2004, Mashhad, Iran.

78\* Acid Phosphatase Activity of Mouse Ovary after Hyperstimulation. The 6<sup>th</sup> Annual Research Seminar of Iranian Medical Sciences Student, 2005, Sari, Iran.

79\* Hyperstimulation Affects Alkaline Phosphatase Activity of Mouse Uterus and Ovary. The 13<sup>th</sup> World Congress on In Vitro Fertilization Assisted Reproduction and Genetics, 2005, Istanbul, Turkey.

80\* Acid Phosphatase Activity of Mouse Uterus and Ovary after Hyperstimulation. The 13<sup>th</sup> World Congress on In Vitro Fertilization Assisted Reproduction and Genetics, 2005, Istanbul, Turkey.

81\* Alkaline Phosphatase Activity after Superovulation of Mouse Endometrium. The 13<sup>th</sup> World Congress on In Vitro Fertilization Assisted Reproduction and Genetics, 2005, Istanbul, Turkey.

82\* Survival and Implantation Rates of Blastocyst after Administration of Progesterone in Hypertstimulated and Non Stimulated Mice. The 13<sup>th</sup> World Congress on In Vitro Fertilization Assisted Reproduction and Genetics, 2005, Istanbul, Turkey.

83\* In Vitro Maturation of Preantral Follicles Isolated from Fresh and Vitrified Mouse Ovary in Simple and Co-Culture System. The 13<sup>th</sup> World Congress on In Vitro Fertilization Assisted Reproduction and Genetics, 2005, Istanbul, Turkey.

84\* Comparison of Uterus Acid Phosphatase Activity in Normal and Pseudopregnant Condition. The 8<sup>th</sup> Iranian Congress of Biochemistry and the 1<sup>st</sup> International Congress of Biochemistry and Molecular Biology, 2005, Tehran, Iran.

- 85\* Comparison of Mouse Uterus Alkaline Phosphatase Activity in Normal and Pseudopregnancy. The 8<sup>th</sup> Iranian Congress of Biochemistry and the 1<sup>st</sup> International Congress of Biochemistry and Molecular Biology, 2005, Tehran, Iran.
- 86\* Alteration of Alkaline Phosphatase Activity after Ovulation Induction in Ovary. The 4<sup>th</sup> Asian Pacific International Congress of Anatomists. 2005, Kushadasi, Turkey.
- 87\* Alteration of Ovarian Acid Phosphatase Activity during Early Pregnancy. The 4<sup>th</sup> Asian Pacific International Congress of Anatomists. 2005, Kushadasi, Turkey.
- 88\* In Vitro Fertilization Rate of Mouse Ova in the Absence or Presence of Recombinant Human Leukemia Inhibitory Factor. The 4<sup>th</sup> Asian Pacific International Congress of Anatomists. 2005, Kushadasi, Turkey.
- 89\* Differentiation of P19 Embryonic Carcinoma Cells to Erythroid and Non Erythroid Cells in the Presence of Interleukin 3,6 and Erythroid in Simple and Co-culture System. The 4<sup>th</sup> Asian Pacific International Congress of Anatomists. 2005, Kushadasi, Turkey.
- 90\* Effect of Laser Therapy of 30 mW on Bone Repair: Histological Study. Emirates Physiotherapy conference 2006, Dubai, UAE.
- 91\* Increased Growth and Developmental Rates of Vitrified Mouse Preantral Follicles Using Different Concentrations of Leukemia Inhibitory Factor. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 92\* Effects of Cumulus Cells on in Vitro Maturation of Mouse Germinal Vesicle Stage Oocytes. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 93\* Vitrification of Mouse Ovary Has not Effects on Incidence of Follicular Apoptosis. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 94\* Evaluation of Acid Phosphatase Activity Alteration of Endometrium and Ovary after Ovulation Induction during Normal and Pseudopregnancy. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 95\* Comparison Between in Vitro and in Vivo Embryo Development and Its Quality after Ovarian Induction in Mice. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 96\* Influence of Ovarian Induction on Alkaline Phosphatase Activity of Mouse Endometrium and Ovary. 7<sup>th</sup> Iranian Congress of Anatomical science, 2006, Kashan, Iran.
- 97\* Improve the Growth and Developmental Rates of Isolated Fresh and Vitrified Mouse Preantral Follicles Using Leukemia Inhibitory Factor. 22<sup>nd</sup> Annual Meeting of the European Society of Human Reproduction and Embryology, 2006, Prague, Czech Republic.
- 98\* Effect of BMP4 on the Differentiation of Embryonic Stem Cells to Erythroid Linage in Serum Free Media. The 13<sup>th</sup> Iranian Congress of Fertility and Sterility, 2007, Tehran, Iran
- 99\* Effect of Vitrification with Single Agent in Step Wise Manner Using Different Concentrations of Ethylene Glycol on the Morphology of Mouse Ovaries Tissue. The 13<sup>th</sup> Iranian Congress of Fertility and Sterility, 2007, Tehran, Iran
- 100\* Transplantation and Homing of Treated Embryonic Stem Cells with Erythropoietin. 2007, 23<sup>th</sup> Annual Meeting of the European Society of Human Reproduction and Embryology, Lyon, France.
- 101\* Effect of Ovarian Hyperstimulation on the Endometrial Phosphatase Activity. Indo-French Congress on Gynecologic Endoscopy, Ultrasound and Infertility, November 2006, Varanasi (Benares), India.
- 102\* Gene Expression Profile in Erythroid Cells Derived from Embryonic Stem Cells. Indo-French Congress on Gynecologic Endoscopy, Ultrasound and Infertility, November 2006, Varanasi (Benares), India.
- 103\* Developmental Potential of Mice Germinal Vesicle Oocyte and Fertilization Rate after Step-Wised Vitrification. Indo-French Congress on Gynecologic Endoscopy, Ultrasound and Infertility, November 2006, Varanasi (Benares), India.

- 104\* The Effect of Co-culturing of M2-10B4 Cell Line on the Differentiation of Embryonic Yolk Sac Stem Cells to Erythroid Hematopoietic Cells. (Meeting Abstract) *Cytotherapy*, 8, 2006.
- 105\* Morphological, Ultrastructural and Biochemical Identification of Apoptosis in Vitrified-Warmed Mouse Ovarian Tissue. 18th Iranian Congress of Physiology and Pharmacology. 2007, Mashhad, Iran.
- 106\* Flow cytometric analysis of antral follicles isolated from vitrified and non-vitrified ovaries in vitro. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, 2008 Yazd, Iran.
- 107\* Effect of estrogen and progesterone hormones on the endometrial of ovariectomized mice. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, 2008 Yazd, Iran.
- 108\* The effect of BMP4 on globin genes expression in erythroid-like cells differentiated from embryonic stem cells in serum free media. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, 2008 Yazd, Iran.
- 109\* Effect of ovarian follicle isolation technique on in vitro follicle culture and maturation. *Cell Journal* 2009, 11 (1), 55. 10<sup>th</sup> Royan International Congress on Reproductive Biomedicine.
- 110\* Effect of progesterone on the in vitro maturation of mouse GV oocytes. 3<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2009, Yazd Iran.
- 111\* Evaluation of murine integrin and osteopontin ligand expression during oestrous cycle by immunohistochemical technique. 3<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2009, Yazd Iran.
- 112\* Effect of sodium selenite on the reactive oxygen species production and total antioxidant capacity during in vitro maturation of mouse preantral follicles. 3<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2009, Yazd Iran.
- 113\* Mouse models of abortion. 3<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2009, Yazd Iran.
- 114\* Evaluation of apoptosis and its related genes expression in vitro cultured follicles derived from vitrified and non-vitrified ovary. 13 World Congress of Human Reproduction. Venezia March 5-8 2009.
- 115\* Sodium selenite improves the in vitro follicular development by reducing the reactive oxygen species level and increasing the total antioxidant capacity and ... 9<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2010).
- 116\* Effects of progesterone and exogenous gonadotropin on the incidence of apoptosis in mouse blastocysts. *Reproductive Biomedicine Online*, 2010, s17
- 117\* Effects of different transplantation sites on follicular surviving and apoptosis incidence of intact whole rat ovaries after autotransplantation. 9<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2010).
- 118\* Mitochondrial distribution and function in germinal vesicle oocytes derived from vitrified and non-vitrified mouse ovarian tissue. *Human Reproduction*, 2011, 26. Annual Meeting of ESHRE Stockholm 3-6 July 2011.
- 119\* Effect of ovulation induction on the expression of  $\alpha v$  and  $\beta$  integrins in mouse blastocyst. 4<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2011, Yazd Iran.
- 120\* Embryology: The effects of different transplantation sites on follicular surviving and apoptosis incidence of intact whole rat ovaries after autotransplantation. 10<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2011).
- 121\* Distribution of uterus natural killer cells on pregnant mice after hyper stimulation protocol. 4<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2011, Yazd Iran.

- 122\* Correlation between the endometrial integrin and osteopontin expression with pinopodes development in ovariectomized mice in response to exogenous steroids hormones. 4<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2011, Yazd Iran.
- 123\* Effect of ovulation induction on the expression of  $\alpha_v$ ,  $\alpha_4$ ,  $\beta_1$  and  $\beta_3$  integrins in mouse blastocyst. Human Reproduction. 2011, 26. Annual Meeting of ESHR
- 124\* Effect of selenium on reactive oxygen species concentration of cultured preantral follicles from vitrified mouse ovaries using conventional and direct cover technique. 4<sup>rd</sup> Yazd International Congress of Reproductive Medicine 2011, Yazd Iran.
- 125\* Influence of formaldehyde vapor on male reproductive function in mice. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 126\* Reactive oxygen species production of mice vitrified isolated pre-antral follicles using cryotop methods. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 127\* Effect of vitrification on mouse oocytes survival rate and apoptosis using cryotop. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 128\* Effect of alpha Lipoic Acid on ROS production and TAC levels of cultured isolated pre-antral follicles derived from mice vitrified ovaries. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 129\* Influence of formaldehyde vapor on male reproductive function in mice. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 130\* Evaluation of pluripotency markers of mouse endometrial tissue in different stages of estrous cycle. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 131\* Interpretation of mice vaginal smears to determine estrous cycle based on uterine and ovary tissue sections. 11<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2012).
- 132\* Study of structure and follicular maturation, angiogenic and apoptotic genes expression of rat ovarian tissue after vitrification and autotransplantation. 12<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2013).
- 133\* Effect of vitrification on distribution of  $\alpha_v$ ,  $\alpha_4$ ,  $\beta_1$  and  $\beta_3$  integrins mouse oocytes at GV, IVM-MII and OV-MII stages. International Journal of Fertility and Sterility, 2013, 7 (3), 63. 12<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2013).
- 134\* Evaluation of the follicular growth after mouse ovarian organ culture in the medium supplemented with growth differentiation factor-9b (gdf-9b). 12<sup>th</sup> Royan International Congress on Reproductive Biomedicine (September 2013)
- 135\* Human ovarian tissue vitrification as an alternative method for assisted reproduction. 5<sup>th</sup> Yazd International Congress of Reproductive Medicine 2013, Yazd Iran.
- 136\* Effects of simultaneous formaldehyde vapor and noise exposure on pituitary-gonadal axis in adult male mice. Journal of Kermanshah University of Medical Sciences, 2013, 16 (8).
- 137\* Assessment of the vitrified ovarian tissue in long term culture. 13<sup>th</sup> Royan International Congress on Reproductive Biomedicine (Sept 2014).
- 138\* Artificial ovary and infertility: application of natural extra cellular matrix in ovarian follicular growth in vitro. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).
- 139\* Morphological analyses and apoptosis genes expression evaluation in vitrified human ovarian tissue after warming, long term culturing and xenotransplantation. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

140\* In vitro growth and apoptosis incidence, valuation of in vitrified human ovarian tissue following treatment with growth differentiating factor 9b (gdf-9b) and leukemia. 4<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

141\* Effect of LIF on in vitro growth and apoptosis incidence in vitrified human ovarian tissue after 14 days culture. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

142\* Effect of kit ligand (KitL) and leukemia inhibitory factor (ILF) on maturation and apoptosis of follicles after vitrification of mouse ovary and three dimensional culture. 6<sup>th</sup> Yazd International Congress of Reproductive Medicine 2015, Yazd Iran.

143\* Artificial ovary and infertility: application of natural extra cellular matrix in ovarian follicular growth in vitro. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

144\* Morphological analyses and apoptosis genes expression evaluation in vitrified human ovarian tissue after warming, long term culturing and xenotransplantation. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

144\* In vitro growth and apoptosis incidence, valuation of in vitrified human ovarian tissue following treatment with growth differentiating factor 9b (gdf-9b) and leukemia ... 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

145\* Effect of LIF on in vitro growth and apoptosis incidence in vitrified human ovarian tissue after 14 days culture. 14<sup>th</sup> Royan International Congress on Reproductive Biomedicine (3-5 September 2015).

146\* Decidual-secreted factors of abortion prone mice modulates the capacity of dendritic cells to induce regulatory T cell and th2. International Congress of Immunology, Asthma and Allergy. 2016, volume 3

147\* Altered frequency and phenotype of decidual dendritic cells in abortion prone mice. International Congress of Immunology, Asthma and Allergy. 2016, volume 3

148\* Embryonic stem cells over-proliferation concurrent with nrf2 over-expression and apoptosis resistance at highest non-cytotoxic concentration: a possible explanation for malathion carcinogenesis. Toxicology Letters, 2016; s94.

149\* Assessment of Malathion developmental neurotoxicity in vitro with mouse embryonic stem cells. Toxicology Letters, 2016; s240-s241.

150\* Menstrual blood stromal stem cells modulate the properties of dendritic cells. European Journal of Immunology 46, 311.

151\* Construction of endometrial-like epithelium using human endometrial cd146 positive cells in vitro. Human Reproduction 2016; 31, 469-470. Annual Meeting of ESHRE

152\* Vitrification had impair effect on the mitochondrial enzyme activity, TFAM gene expression and ROS level of mouse oocyte. Ovarian Club VIII. Nov 4-6 2016 Paris, France.

153\* Embryonic stem cells as an alternative novel approach to predict carcinogenic potential of non-genotoxic chemicals. Toxicology Letters 2017; 280, s323.

154\* Distinct gene expression responses corroborate sensitivity of embryonic stem cells-derived neural cells to the Malathion at highest non-cytotoxic concentration. Toxicology Letters 2017; 280, s324.

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- 156\*Evaluation of testicular tissue vitrification by ectopic transplantation and in vitro culture. Human Reproduction, 2017, 32, 152. Annual Meeting of ESHRE
- 157\*Developmental potential of vitrified mouse testicular tissue after ectopic transplantation. Journal of Urology, 2017, 197 (4), e543.
- 158\* Vitrification and in vitro culture of stimulated human ovarian tissue: morphological and molecular analysis. The 54th Annual Meeting of the Society for Cryobiology, 2017, China.
- 159\* Impact of antioxidant supplementation to vitrifying media on follicular apoptotic gene expression. The 54th Annual Meeting of the Society for Cryobiology, 2017, China.
- 160\*Analysis of apoptosis in cultures of follicles derived from vitrified ovary The 54th Annual Meeting of the Society for Cryobiology, 2017, China.
- 161\* Lysophosphatidic acid improved the development of isolated follicles derived from vitrified and non-vitrified mouse ovaries. ESHRE workshop on Evidence-based practice in the IVF laboratory" Athens, Greece, from 17 to 19 May 2018.
- 162\* In vitro implantation model using human endometrial mesenchymal stem cells and mouse blastocysts. WCGO-2018 Canada
- 163\*Morphological, ultrastructural and molecular aspects of in vitro mouse embryo implantation on human endometrial stromal cells in the presence and absence of steroid hormones as an implantation model. 8<sup>th</sup> Yazd International Congress of Reproductive Medicine 2019, Yazd Iran.
- 164\* Effect of kit ligand (Kit L) and leukemia inhibitory factor (ILF) on maturation and apoptosis of follicles after vitrification of mouse ovary and three dimensional culture. 8<sup>th</sup> Yazd International Congress of Reproductive Medicine 2019, Yazd Iran.

#### **XVIII. COURSES TAUGHT**

- General and Advance Histology
- Histology Lab.
- Oral Histology
- General and Advance Embryology
- Histotechnique
- Tissue Culture
- Stem Cells
- Tissue Engineering

#### **XIV. THESIS SUPERVISED and CO-SUPERVISED**

\* More than 45 PhD and MSc thesis were supervised.

\*Above 20 PhD and MSc thesis was co-supervised.

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