

# CURRICULUM VITAE

**Name:** Amir Hassan Zarnani

**Date of Birth:** 3 Apr 1964

**Sex:** Male

**Marital Status:** Married with two children (boy and girl)

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## Education:

Ph.D. of Immunology, Tarbiat Modarres Univ. Tehran, Iran (1997-2004) (**score: first rank, 18.73 from 20**)

D.M.T.: Doctor of Medical Technology, Shahid Beheshti Univ. Tehran, Iran (1983-1992) (**score: first rank, 18.07 from 20**)

## Experiences:

### Research Activities:

- The role of rotaviruses in acute gastroenteritis
- Monoclonal antibody production
- Immunobiology of dendritic cells
- Immunobiology of normal pregnancy.
- Immunomodulation in pregnancy disorders: RSA, RIF and Endometriosis
- Cancer Immunology and Immunotherapy
- Nanobiotechnology

## Institutional and technical experiments:

- Diagnostic methods in the fields of clinical hematology, biochemistry, mycology, serology, microbiology and parasitology
- Cell purification with density gradient media
- MACS
- Flow cytometry
- Protein purification
- Western blot
- Immunoprecipitation
- Electrophoresis
- Cytochemistry
- Immunocytochemistry and immunohistochemistry
- Tissue and cell culture
- Hybridoma technique and production of monoclonal antibody
- Photometry
- ELISA
- PCR
- MLR, LTT, MTT
- Mouse and rat reproductive biology
- Cancer Immunotherapy

## **Administration:**

- 1) Head of Nanobiotechnology Research Center, Avicenna Research Institute, Tehran, Iran (From 2009)
- 2) Faculty member of Iran University of medical sciences, School of medicine, Department of Immunology (2005-2010)
- 3) Deputy of Research, Immunology Research Center, Iran University of medical sciences (From 2007)
- 4) Consultant of immunological problems in infertility and recurrent abortion, Avicenna Research Institute (ARI) (from 2004)
- 5) Head of Reproductive Immunology Department, Reproductive Biology and Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran (From 2003)
- 6) Researcher of Avicenna Research Institute, Department of Immunology, Monoclonal Antibody Research Center (from 2003)
- 7) Head of diagnostic laboratories of several governmental hospitals (1992-1998)

## **Review board of scientific journals:**

- 1) Iranian journal of immunology
- 2) Iranian journal of allergy asthma and immunology
- 3) Journal of reproduction and infertility
- 4) Blood (Khoon)
- 5) Archives of Iranian Medicine
- 6) Cancer investigation
- 7) Journal of clinical laboratory analysis
- 8) Medical journal of Iran university of medical sciences
- 9) Avicenna journal of medical biotechnology
- 10) BioMedical Engineering OnLine
- 11) Medical oncology
- 12) Modares Journal of Medical Sciences

## **Editorial Board of scientific journals:**

- 1) Associate editor of Avicenna journal of medical biotechnology (From 2008)
- 2) Associate editor of Journal of reproduction and infertility (From 2010)
- 3) Journal of clinical immunology and immunopathology research(From 2009)

## **Teaching activities:**

- Introduction to medical laboratory sciences for B.Sc students (1993-2001)
- General immunology for MD students(2002,2005-2009)
- Immunology of Reproduction for Ph.D. students (2001-2009)
- Advanced biochemical methods and procedures for M.Sc. students (2002-2004)
- General immunology for nursing students (2005-2006)
- Advanced Immunology for Ph.D students (2005-2009)
- Special topics in immunology for Ph.D students (2005-2009)

- Basic immunology for M.Sc. students (2005-2009)
- Organ immunology for Ph.D students (2005-2009)
- Immunology course for residents of pathology (2005-2006)
- Seminars in immunology for Ph.D and MSc. students (2006-2009)
- Immunological methods for M.Sc. students (2006-2009)
- Immunology MSc. students (2006-2009)
- Immunopathology of viral diseases for Ph.D students (2006)
- Immunology of infectious diseases for M.Sc. students (2006-2008)
- Immunopathology of human reproduction M.Sc. students (2006-2008)
- Immunochemistry for Ph.D students (2006-2009)
- Immunochemistry for M.S.c students (2006-2009)
- Practical advanced Immunology for Ph.D and MSc students (2006-2009)
- Practical immunology for M.D students (2006-2009)
- Molecular immunology for Ph.D students (2010)
- Advanced Immunologic methods for Ph.D students (2010)
- Advanced techniques in molecular medicine for Ph.D. students (2010-2011)

### **Coadvisor of MD (Internalist) project:**

- 1) Evaluation of anti HBs antibody titer in healthcare workers after vaccination with recombinant HBs vaccine

### **Supervisor of M.Sc projects:**

- 1) Evaluation of thyroglobulin gene expression in endometrium of cycling Balb/c mice (Ali Moravvej: Iran university of Medical Sciences).
- 2) Evaluation of thyroid peroxidase gene expression in reproductive organs of Balb/c mice during estrous cycle (Maryam Abbasi: Iran university of Medical Sciences).
- 3) Evaluation of immunotherapeutic effects of dendritic cells co-pulsed with tumor antigen and a third party antigen in tumor bearing mice (Monireh torabi Rahvar: Iran university of Medical Sciences).
- 4) Effects of LPS and LTA on proliferation and apoptosis of cancerous cell lines (Simin Rezaia: Iran university of Medical Sciences).
- 5) Immunomodulatory effects of vitamin D3 in production of inflammatory cytokines, TNF- $\alpha$  and IL-6 and expression of TLR-2, TLR-4 and MyD88 genes by LPS- and LTA-activated endometrial cells (Nesa Rashidi: Tehran University of Medical Sciences).
- 6) Evaluation of Sort 1 expression in ovary of patients with ovarian cancer (Sheida Hemmati: Khatam University).
- 7) Production and Characterization of Polyclonal Antibodies Against Bovine Pregnancy Associated Glycoprotein (PAG) (Malihossadat Pourmasjedi Meibod, Tehran University of Medical Sciences)
- 8) Immunophenotyping of menstrual and peripheral blood leukocytes in fertile and infertile women and women with unexplained recurrent spontaneous abortion (Samira Hosseini, Tehran University of medical sciences)

## **Coadvisor of M.Sc projects:**

- 1) Study of immunosuppressive effects of pregnant mouse serum on allogenic stimulation of T cells by dendritic cells (Jeleh Shojaeian: Tarbiat Modarres University)
- 2) Effect of murine decidual culture supernatants on expression of indoleamine 2,3 dioxygenase by dendritic cells (Mehdi Mahdavi: Tarbiat Modarres University)
- 3) Expression of Indoleamine 2,3 Dioxygenase in endometrium of female mice during Estrous cycle (Narges Abbasi: Islamic Azad University)
- 4) Effect of pregnant murine serum on expression of indoleamine 2,3 dioxygenase by dendritic cells (Shohreh Nikoo: Tarbiat Modarres University)
- 5) Study of immunosuppressive effects of pregnant mouse serum on capacity of dendritic cells to induce antigen-specific proliferation and cytokine production by T lymphocytes (Mahmood Bozorgmehr: Tarbiat Modarres University)
- 6) Evaluation of VDR gene expression in endometrium of cycling Balb/c mice (Mehdi Shahbazi: Iran university of Medical Sciences)
- 7) Relationship between serum levels of anti EBV antibodies and production of IFN $\gamma$  , IL-4 and IL-12 by mitogen-activated peripheral blood mononuclear cells in patients with multiple sclerosis (Bahareh Laraibi: Iran University of Medical Sciences)
- 8) Study of HLA-I and HLA-II expression in osteocytes differentiated from menstrual blood-derived stromal stem cells.(Saeideh Darzi, Iran University of Medical Sciences).
- 9) Effect of estradiol on expression of GnRH gene in endometrial cells in vivo (Mehrnoosh Farahpour, Khatam University).
- 10) Effect of estradiol on expression of GnRH receptor gene in endometrial cells in vivo (Mahtab Farzad Tabar, Islamic Azad University).
- 11) Evaluation of interactions between human neutrophils/macrophages and Leishmania tropica in early entrance. (Narges Shahmohammad, Iran University of Medical Sciences).
- 12) Produce monoclonal antibodies and polyclonal against specific markers and transplantation of human stem cell spermatogonia for spermatogenesis in the mouse mode nude azoospermia. (Leila Gohar Bakhsh).
- 13) Production and Characterization Of polyclonal & monoclonal antibodies against The Toxoplasma gondii major surface antigen (SAG1) Peptide. (Mohadese Naghi Vishteh).
- 14) Using Herceptin-functionalized ORMOSIL (organically modified silica) nanoparticles for breast cancer cells targeting (Vahid ShirShahi, University Of Tehran).
- 15) Neural differentiation Potential of Human Mesenchymal Stem Cells derived from Menstrual blood and bone Marrow (Fereshte Azedi, The university Of Shahid Beheshti).

## **Supervisor Ph.D. projects:**

- 1) Application of nanoparticle Quantum Dots in the early diagnosis of breast cancers in Iran (Akram-sadat Tabatabaei: Islamic Azad University).
- 2) Immunomodulation induced by Dioxin in patients with endometriosis (Shohreh Nikoo: Tarbiat Modarres university).
- 3) Evaluation of correlation between serum vitamin D3 levels and T regulatory and Th17 cells percent and its effects in pre-cancerous state of endometrioma (apoptosis, adhesion and invasion) in patients with ovarian endometrioma (Ali-akbar Delbandi: Mashhad University of Medical Sciences).
- 4) Molecular characterization of a novel isoform of ROR1 receptor tyrosine kinase, and its role in cell signaling (Flora Forouzeh: Islamic Azad University).
- 5) The effect of endometriotic patients menstrual blood stromal stem cells on dendritic cell maturation and function (Mahmood Bozoejmehr, Tarbiat Modarres University).
- 6) The study of phenotypic characteristics and cardiac differentiation potential of human menstrual blood derived stem cells (Maryam Rahimi, Tarbiat Moalem University Of Tehran).

### **Coadvisor of Ph.D projects:**

- 1) Designing of a Quantum Dot-based fluoroimmunoassay for measurement of serum CA125 in patients with ovarian cancer (Sorour Shojaeian: Tarbiat Modarres University).
- 2) Immunomodulatory effects of vitamin D3 in production of IFN- $\gamma$ , IL10, TGF- $\beta$ , IL6, IL17 and gene expression of LIF, LIFR & HOXA10 in the endometrium of women with idiopathic recurrent implantation failure and control (Samira Rajaei: Tehran University of Medical Sciences).
- 3) Analysis of vitamin D3 metabolism and its immunomodulatory effects in women with recurrent spontaneous abortion (RSA) (Maryam Tavakkoli: Iran University of Medical Sciences).
- 4) The study of in vivo effects of active form of vitamin D3 on dendritic cells and investigation of their tolerogenic effects using EAE model (Mohammad Mehdi Eftekharian: Tarbiat Modarres University).
- 5) Assessment of apoptosis and angiogenesis factors (VEGF and Angiopoetin) in human ovarian cortex after transplantation in nude mice (Maryam Hormozi: Iran University of medical Sciences).
- 6) The Study of Potency of Differentiation of Male Mouse Bone Marrow Stem Cells to Spermatogonial Stem Cells (Reza Shirazi: Tehran University of Medical Sciences).
- 7) The study of the effects of vitamin A supplementation on immune system and Th1/Th2 balance in patients with atherosclerosis (Maryam Mahmoudi: Tehran University of Medical sciences).
- 8) Study the profile of luteinizing hormone (LH) receptor in hippocampus of castrated rat model (Hosein Abtahi: Iran University of Medical Sciences).
- 9) Evaluation of the role of Sort-1 in survival of ovarian cell lines. (Fatemeh Ghaemi manesh: Tarbiat modarres university).
- 10) Combination of TLR3 Agonist and Silibinin as Immunoadjuvant in Breast Cancer: An *in vitro* study on cancer cell line model. (Nastaran Alizedeh, Iran University of Medical sciences).

- 11) The study of the effects of vitamin A supplementation on immune system and Th1/Th2 balance in patients with atherosclerosis (Maryam Mahmoodi, Tehran University of Medical Sciences).
- 12) Effect of pomegranate extract consumption on sepsis induced oxidative stress, inflammatory response and clinical progress in CLP model of sepsis in rats (Sanaz Tavassoli, Iran University of Medical Sciences).
- 13) Study of *Brucella melitensis* omp31, 1197260 (DNAK Protein), 1197813, 1196780 (TF Protein) genes product potential in inducing in vitro and in vivo immune response in Balb/C mouse (Amir Ghasemi, Tehran university of Medical Sciences).
- 14) Cloning, experssion and purification of *Helicobacter pylori* catalase, *fliD* and *tig* genes product and study their potency to detect *Helicobacter pylori* in serum and stool samples of human by ELISA method. (Mohammad Khalife Gholi, University of Tehran).
- 15) Resveratrol and possible mechanisms of influence on the cell line HepG2 and HCT-116 Otto Puzayd in hyper Ansulynmmy (Fatemeh sedate Amiri University Of Tehran)

### **Completed projects (As project manager or main co-worker):**

- 1) Simultaneous pulsing of dendritic cells with tumor antigen and a third-parthy antigen: A new approach for enhancing capacity of dendritic cells to present tumor antigens.
- 2) Characterization of murine decidual dendritic cells during pregnancy.
- 3) Induction of Endometriosis with implantation of endometriotic fragments in female rats peritoneum.
- 4) Application of Nanoparticle Quantum Dots in the Early Diagnosis of Two Most Common Ovarian and Breast Cancers in Iran.
- 5) Expression of Indoleamine 2,3 Dioxygenase in endometrium of female mice during Estrous cycle.
- 6) Evaluation of VDR gene and protein expression in reproductive tissues of Balb/c mice during estrous cycle and pregnancy.
- 7) Evaluation of thyroglobulin gene and protein expression in reproductive tissues of Balb/c mice during estrous cycle and pregnancy.
- 8) Investigation of structure and function of receptor tyrosinw kinase ROR-1 in B cell chronic lymphocytic leukemia (B-CLL): Investigation of leocomogenesis and target-specific therapy.
- 9) ODF2 protein in sperm tail of fertile and infertile men with sperm motility and quantitative abnormalities.
- 10) Serum level of thyroidal auto antibodies in fertile and infertile women and women with repeated pregnancy loss.
- 11) Evaluation of serum level of leptin in women with unexplained or immune-mediated recurrent abortion, ART failure and unexplained infertility.
- 12) Assessment of immunogenicity and reactogenicity of DPT vaccines in Iranian children. A national project.

- 13) Relationship between MTHFR genotype and hemocytin level in patient with recurrent abortion.
- 14) Evaluation of thyroid peroxidase gene expression in endometrium of Balb/c mice during estrous cycle.
- 15) Evaluation of presence of CD56+CD16+, CD19+CD5+, CD8+, CD4+ and CD3+ cells in patients with infertility, recurrent abortion and repeated IVF failure.
- 16) Simultaneous pulsing of dendritic cells with tumor antigen and a third-party antigen: A new approach for enhancing capacity of dendritic cells to present tumor antigens.
- 17) Analysis of vitamin D3 metabolism and its immunomodulatory effects in patients with recurrent spontaneous abortion.

### **Ongoing projects (As project manager or main co-worker):**

- 1) Evaluation of vitamin D3 metabolism in women with recurrent spontaneous abortion.
- 2) Analysis of vitamin D receptor (VDR) expression in patients with non-obstructive azoospermia.
- 3) Production of new generation of anti-cancer vaccines: A national project.
- 4) Establishment of therapeutic monoclonal antibody technology in Iran; Phase 1: Laboratory scale production of anti-Her2 therapeutic monoclonal antibody. A national project.
- 5) Frequency of anti-thyroid antibodies in patients with endometriosis.
- 6) Immunomodulatory effects of vitamin D3 in the endometrium of women with idiopathic recurrent implantation failure.
- 7) Immunomodulatory effects of vitamin D3 in production of inflammatory cytokines, TNF- $\alpha$  and IL-6 and expression of TLR-2, TLR-4 and MyD88 genes by LPS- and LTA-activated endometrial cells.
- 8) Assessment of apoptosis and angiogenesis factors (VEGF and Angiopoietin) in human ovarian cortex after transplantation in nude mice.
- 9) Study the profile of luteinizing hormone (LH) receptor in hippocampus of castrated rat model.
- 10) The Study of Potency of Differentiation of Male Mouse Bone Marrow Stem Cells to Spermatogonial Stem Cells.
- 11) Evaluation of immunotherapeutic effects of dendritic cells co-pulsed with tumor antigen and a third party antigen in tumor bearing mice.
- 12) Evaluation of correlation between serum vitamin D3 levels and T regulatory and Th17 cells and its effects in precancerous state of endometrioma in patients with ovarian endometrioma.
- 13) Functional evaluation of menstrual blood stromal stem cells from endometriosis patients in inducing regulatory T cells and the effect of dioxin as an environmental toxin on this phenomena.
- 14) Effect of LPS and LTA on proliferation of some cancerous cell lines.

- 15) Evaluation of the potential role of menstrual blood stromal stem cells in induction of endometriosis.
- 16) Comparison of phenotypic characteristics and cardiogenic differentiation potential of human menstrual blood derived stem cells with bone marrow-derived mesenchymal stem cells.
- 17) The study of phenotypic and genotypic characteristics, proliferation and differentiation potential of human menstrual blood-derived stem cells in two and three dimensional culture system.
- 18) Production of monoclonal antibody against leptin.
- 19) Investigation of LH receptor isoforms and its relation to apoptosis in hippocampus of castrated rats.
- 20) Hepatic differentiation of human menstrual blood-derived stem cells.
- 21) Production of polyclonal and monoclonal antibodies against specific markers of spermatogonial stem cells and transplantation of these cells in azospermic nude mice in order to restoring spermatogenesis.
- 22) Production of anti-Her2 monoclonal antibodies with potential capacity of apoptosis induction in Her2 positive cells.
- 23) Production of chimeric anti-Her2 monoclonal antibodies with potential capacity of apoptosis induction in Her2 positive cells.
- 24) Study of resveratrol and etoposide mechanisms on HepG2 and HCT-116 cell lines in hyperinsulinemia
- 25) Study on anti-tumor effects of tin (IV) carboxilates
- 26) Effects of new cytotoxic platinum complex
- 27) The Study of Anti- Tumor Effect of hAEC Immunization on Induced Colon Adenocarcinoma in Balb/C Mice
- 28) Application of gold nanoparticles for protein determination in Western blot and Elisa methods
- 29) Design of gold nanorods with fluorescent properties in order to detection and thermal therapy of cancer cells simultaneously
- 30) Design and synthesis of smart nanohydrogel for drug delivery
- 31) Synthesis and application of titanium dioxide nanoparticles (TiO<sub>2</sub>) on antibiotic-resistant and antibiotic-sensitive bacteria
- 32) Synthesis of anti-HER2 immunoliposomes containing 1-Methyl tryptophan and Doxorubicin for breast cancer immunotherapy: Phase I; in vitro experiments
- 33) Design and MACS columns
- 34) Phenotypic and genotypic characteristics of potential proliferation and differentiation of tissue stem cells derived from human menstrual blood cultures in two-dimensional and three-dimensional environments, specific
- 35) Of phenotypic characteristics, potential for cardiac differentiation of stem cells derived from human menstrual blood than bone marrow-derived mesenchymal stem cells



36) Immunophenotyping of menstrual and peripheral blood leukocytes in fertile and infertile women and women with unexplained recurrent spontaneous abortion

### **Professional membership:**

- Member of European society for Reproductive immunology.
- Member of Iranian society of allergy asthma and immunology.
- Member of Iranian society of Immunology.
- Member of Iranian society of medical laboratory doctors.

### **Workshops (as lecturer and Scientific Chair):**

- 1) Cell culture, Avicenna Research Institute, 2010.
- 2) Synthesis of CdSe nanoparticles as a quantum dots core in coordinating and non-coordinating solvents. Avicenna Research Institute, 2010.
- 3) Training Course New Techniques in Real Time PCR, Fargen Pouyesh Co. 18 October 2010. Avicenna Research Institute, Tehran, Iran.
- 4) Bioconjugation, Avicenna Research Institute, 2010.
- 5) Production of monoclonal antibodies, Avicenna Research Institute, 2010. (Two workshops).
- 6) Immunohistochemistry, Avicenna Research Institute, 2010.
- 7) Immunohistochemistry, Avicenna Research Institute, 2010. (workshop attendance certificate)
- 8) Production of monoclonal antibodies, Avicenna Research Institute, 2009 (Two workshops).
- 9) Workshop on recurrent spontaneous abortion, Avicenna Research Institute, 2008.
- 10) Laboratory animals, 2008, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 11) Production of monoclonal antibodies, 2008, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 12) Laboratory animals, 2007, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 13) Immunohistochemistry, 2007, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 14) Workshop on recurrent spontaneous abortion, Avicenna Research Institute, 2007.
- 15) Application of quantum dots nonoparticles in medicine, Avicenna Research Institute, 6 March 2007.

- 16) Production of monoclonal antibodies, 2007, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 17) Production of monoclonal antibodies, 2006, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 18) Immunohistochemistry, 2006, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 19) Dendritic cells and Immune response, 2004, Tarbiat Modarres University.
- 20) Viral infections during pregnancy, 2004, Avicenna Research Institute, Shahid Beheshti University of medical sciences.
- 21) Production of monoclonal antibodies, 2002, Avicenna Research Institute, Shahid Beheshti University of medical sciences.

### **Conferences, meetings (from 2000)**

- 1) The 4<sup>th</sup> International & 9<sup>th</sup> National Congress on Quality Improvement in Clinical Laboratories, Tehran, 2011
- 2) 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010
- 3) Tissue Engineering & Regenerative Medicine International Society, 15-17 September 2010, Sheraton On The Park, Sydney Australia
- 4) 6<sup>th</sup> Congress On Stem Cell Biology & Technology, 15-17 September 2010, Royan Institute Tehran Iran
- 5) 14th International Congress Of Immunology Kobe, Japan, 22-27 AUGUST 2010
- 6) Genetics, Law, Ethics, Psychology, Tehran, 10-11, Nov 2010
- 7) New approaches for early detection of diseases (Immunocolus), Rasool akram Hospital, Tehran, 2010
- 8) 10<sup>th</sup> international congress of immunology and allergy of Iran, 18-20 May 2010, Shahid Beheshti University, Tehran, Iran
- 9) Seminar on molecular basis of cancer, 28 Feb 2010, Tehran, Iran.
- 10) Laser microdissection, Baghiat allah Research Center, 20-22 Dec 2009
- 11) 8<sup>th</sup> international congress on obstetrics and gynecology, 5-9 Nov, 2009, Tehran, Iran.
- 12) 16<sup>th</sup> national and first international congress of Iranian society for reproductive medicine, 3-5 Mar 2009, Shiraz, Iran.
- 13) 9th international congress on new trends in immunosuppression & immunotherapy, 4-6 2010, Geneva, Switzerland.

- 14) 14<sup>th</sup> world congress gynecological endocrinology, 4-7 Mar 2010, Italy.
- 15) The 2<sup>nd</sup> international and seventh national congress on quality improving in clinical laboratories, 20-23 April 2009, Razi meeting center, Tehran, Iran.
- 16) The 1<sup>st</sup> national congress of endometriosis, Shahid Beheshti University of Medical Sciences, 12-13 Nov 2008.
- 17) 6<sup>th</sup> European congress of reproductive immunology, Moscow, Russia, June 30-July 3, 2008.
- 18) 9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008.
- 19) Congress on application of nanotechnology in medicine, Iran university of Medical Sciences, 13 NOV 2007.
- 20) 13th International Congress of Immunology, Rio de Janeiro, Brazil, Aug 21-25, 2007.
- 21) 2<sup>nd</sup> International student award and congress in reproductive medicine, May 11- 13, 2007. Yazd, Iran.
- 22) 6<sup>th</sup> biennial congress on Immunology, Asthma & Allergy, New concepts in prevention, diagnosis & treatment. May 22-24 2007, Iran Univ. of medical sciences, Tehran, IRAN.
- 23) 1<sup>st</sup> Mediterranean workshop of clinical Immunology, Evora, Portugal, 26-29 OCT 2006.
- 24) 8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006.
- 25) 3rd European congress of Reproductive Immunology, University of Essex, UK. 11-15 Sep, 2005.
- 26) 6<sup>th</sup> international congress on obstetrics and gynecology, November 25-29, 2005, Tehran, Iran.
- 27) The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences, 14-15 Jan 2004.
- 28) 7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004.
- 29) 12<sup>th</sup> international congress of immunology, Montréal, Canada, 18-23 July 2004.
- 30) 10<sup>th</sup> annual meeting of Middle East fertility society, Beirut, Lebanon, 10-13 Dec 2003.
- 31) First Iranian congress for cell and developmental biology, University of Tehran, 13-14 Sep 2003.
- 32) Seminar on environmental factors and infertility, Avicenna Research Institute, Tehran Iran 2002.
- 33) 6<sup>th</sup> Conference of immunology and allergy, Iran Univ. of medical sciences, Tehran, Iran, 7-9 May 2002.
- 34) Scientific meeting of Indian society for histocompatibility and immunogenetics ,All Indian Institute of medical sciences, New Delhi 2001.
- 35) 12<sup>th</sup> International congress on pediatric diseases, Tehran Univ. of medical sciences, Tehran, Iran 2000.
- 36) 5<sup>th</sup> conference of immunology and allergy, Tarbiat Modarres Univ. Tehran, Iran, 17-19 May 2000.

**Conferences as Scientific Committee:**

- 1) 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010
- 2) Genetics, Law, Ethics, Psychology, Avicenna Research Institute Of Iran 10-11 Nov 2010
- 3) 10<sup>th</sup> International Congress of Immunology & Allergy of Iran. May 18-20, 2010. Tehran.
- 4) 16<sup>th</sup> National & First International Congress Of Iranian Society for Reproductive Medicine. 3-5 March, 2010 Shiraz-Iran.
- 5) 1<sup>st</sup> Congress Fertility Preservation. Jan 13-14, 2010 Tehran Iran.
- 6) 2<sup>nd</sup> International and 7<sup>th</sup> National Congress on Quality Improvement In Clinical Laboratories. 20-23 April 2009 Tehran-Iran.
- 7) Molecular Principles of Cancer Congress. 1March 2010. Tehran Iran.
- 8) The 9<sup>th</sup> Iranian Congress of Immunology & allergy. 17 Jun 2008 Tehran Iran.
- 9) 6<sup>th</sup> Iranian congress of Immunology and Allergy. 7-9 May, 2002. Tehran Iran.
- 10) Congress on Immunological aspects of Fertility and Infertility. 14-15 Jun 2004 Isfahan University of Medical Sciences Avesina Research Center.

## **Presentations (Domestic): (from 2000)**

- 1) Goharbakhsh L., Mohazzab A., Salehkhoh Sh., Heidari M., **zarnani A.H.**, Parivar K., Akhondi M.M. Isolation and culture of human spermatogonial stem cell from testis biopsy determined by GPR125. *4th Yazd International Congress and Student Award in Reproductive Medicine* '15-17 April 2011 ' Yazd,Iran **(Poster Presentation)**.
- 2) **A.H. Zarnani**. Immunology of infertility and abortion, 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010 **(Oral presentation)**
- 3) F. Mohamadi1, **AH. Zarnani**. Biological application of titanium dioxide photocatalysis. *International Congress on Nanoscience and Nanotechnology 9-11 November 2010 Shiraz-Iran*. **(Poster Presentation)**.
- 4) Kazemnejad S, Akhondi MM, Soleimani M, **Zarnani AH**, Mohammadpoor F, Heidari M, Salehkhoh S .Differentiation Of Human Menstrual Blood Derived Stem Cells into Chondrocyte-Like Cells oil A Nanofibrous Scaffold. *6<sup>th</sup> Congress On Stem Cell Biology & Technology, 15-17 September 2010, Royan Institute Tehran Iran*. **(Poster Presentation)**.
- 5) M Karami Gholbaghi, AR Sadeghipour, **AH Zarnani**, AR Salek Moghadam, N Mojtabavi. Scrutinize the Effect of Cancerous Cell Line in a Mouse Model of Allergic Asthma. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(poster presentation)**
- 6) S Rezania, **AH Zarnani**, A Mozaffari, H Rabbani, M Mosallaei, L Katuoziyan, N Rashidi. Differential Expression of Toll-Like Receptor (TLR) Families by Cell Lines of Divers Origins. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*.**(Oral presentation)**
- 7) MM Eftekharian, SM Moazzeni, AH Zarnani. Dendritic Cell Induced Specific T Cell Responses Following Their in vivo Treatment by 1,25 Dihydroxycholecalciferol. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(poster presentation)**
- 8) MM Eftekharian, SM Moazzeni, **AH Zarnani**, InVivo Effects of calcitriol on Phenotypic and Functional Properties of Dendritic Cells. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(poster presentation)**
- 9) AA Delbandi, **AH Zarnani**, M Mahmoudi, A Shervin. The Study of Th17 and Regulatory T Cells Population in Endometriotic Patients. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(Oral presentation)**
- 10) Sh Nikoo, **AH Zarnani**, M Ebtekar, M Jeddi Tehrani, Z Vahedian. Regulatory Function of Menstrual Blood-Derived Stromal Stem Cells. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(Oral presentation)**
- 11) M Salavati, MS Poormasjedi Meibod, M Jeddi Tehrani, **AH Zarnani**, M Vojgani, H Rabbani, MM Akhondi. The Establishment of a Sandwich ELISA Based on a Homemade Polyclonal Antibody For Earliest Detection of Pregnancy Associated Glycoprotein. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran*. **(poster presentation)**

- 12) MS Poormasjedi Meibod, M Salavati, M Jeddi Tehrani, **AH Zarnani**, M Vojgani, H Rabbani, MM Akhondi. Polyclonal Antibody Production against a pregnancy Associated Glycoprotein Peptide: Application for Purification and Characterization of These Proteins from Placental Tissues. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran. (Oral presentation)*
- 13) MS Poormasjedi Meibod, M Salavati, M Jeddi Tehrani, **AH Zarnani**, M Vojgani, H Rabbani, MM Akhondi. Purification and Characterization of Blood Circulating Forms of Bovine Pregnancy Associated Glycoprotein from Iranian Holstein Dairy Cattle during Pregnancy. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran. (poster presentation)*
- 14) N Alizadeh, AR Salek Moghadam, **AH Zarnani**, MR Khoramizadeh. Effect of TLR3 Agonists on the Functionality and Metastatic Properties of Breast Cancer Cell Model. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran. (poster presentation)*
- 15) M Torabi, **AH Zarnani**, H Rabbani, E Torkabadi, N Mojtavavi, R Hadavi. Establishment of Murine Model of Human Breast Cancer Expressing Human Her2/neu. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran. (poster presentation)*
- 16) S Shojaeian, AA Allameh, AH Zarnani, M Jeddi Tehrani, E Torkabadi. Potential Application of Quantum Dot Nanoparticles for Early Detection of Ovarian Cancer. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran. (poster presentation)*
- 17) Hormozi M., Heidari M., Gohari-Hosseini L., Jeddi-Tehrani M., **Zarnani AH.**, Firoozrai M., Akhondi MA., Evaluation of fertility preservation techniques in young women with cancer, *The first congress of fertility preservation, 13-14 Jan 2010, Tehran, Iran. (Oral presentation)*
- 18) Hormozi M., Heidari M., Hoseini-Gohari L., Jeddi-Tehrani M., **Zarnani A.H.**, Firoozray M., Akhondi M.A. Evaluation of the Fertility Preservation Techniques in Girls and Young Women with Cancer, *The first congress of fertility preservation, 13-14 Jan 2010, Tehran, Iran. (Oral presentation)*
- 19) Madjd Z, Hashemi F., Shayanfar N., Farahani E., **Zarnani A.H.**, akbari ME. Human embryonic stem cell genes OCT4 and NANOG are expressed in breast, brain and thyroid carcinomas compared to testicular carcinoma. *The 4<sup>th</sup> international breast cancer congress. Tehran, Iran, 4-6 March 2009 (Oral presentation)*
- 20) **Zarnani AH**, Exploring the eminent role of vitamin D3 in reproduction. *The 2<sup>nd</sup> international and seventh national congress on quality improving in clinical laboratories, 20-23 April 2009, Razi meeting center, Tehran, Iran (Oral presentation)*
- 21) Spermetogonial stem cell transplantation in azoospermic mice. Jafarian A, Akhondi MA, Sadeghi MR, Pezhhan N, **Zarnani AH**, *The 2<sup>nd</sup> international and seventh national congress on quality improving in clinical laboratories, 20-23 April 2009, Razi meeting center, Tehran, Iran (Oral presentation)*
- 22) Shojaeian S., Allameh A.A., **Zarnani A.H.**, Ghods R., Chamankhah M., Bayat A.A., Mahmoudi A.R., Jeddi-Tehrani M. Production and Characterization of Monoclonal Antibodies against the Extracellular domain of CA-125 Antigen. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*

- 23) **Zarnani A.H.**, Emerging role of vitamin D3 in reproductive immunology, *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (As main lecturer)*
- 24) Shahbazi M., Jeddi-Tehrani M., **Zarnani A.H.**, Salek-Moghaddam A., Karimi F., Ghasemi J., Kazemi-Sefat Gh., Moravvej A., Rezaia S., Ostad-Karampour M., Akhondi M.A.. Evaluation of the vitamin D receptor expression in murine reproductive organs during pregnancy. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Poster presentation)*
- 25) Shahbazi M., Salek-Moghaddam A., **Zarnani A.H.**, Jeddi-Tehrani M., Karimi. F, Ghasemi J., Kazemi-Sefat Gh., Moravvej A., Rezaia S., Akhondi M.A. Expression of nuclear receptor of 1,25 dihydroxy vitamin D3 in reproductive organs of cycling mice. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Poster presentation)*
- 26) Tabatabaei-Panah A.S., **Zarnani A.H.**, Jeddi-Tehrani M., Chamankhah M., Ghods R, Bayat A.A., Kazemi-Sefat Gh., Mahmoudi A.R. , Shojaeian S., Akbarzadeh-Najar R., Akhondi M.A. Comparison of Optical Properties of Quantum Dot-525 and FITC-Conjugate antibodies for evaluation of Her2 Expression. . *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*
- 27) Tabatabaei-Panah A.S. **Zarnani A.H.**, Jeddi-Tehrani M., Chamankhah M., Bayat A.A., Ghods R, Kazemi-Sefat Gh. ,Mahmoudi A.R., Ostad Karampour, Akbarzadeh-Najar R., Akhondi M.A. Production and Characterization of anti- Her2 Monoclonal Antibodies. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*
- 28) Moravvej A., **Zarnani A.H.**, Jeddi-Tehrani M., Salek-Moghaddam A., Shekarabi M., Ghods R., Kazemi-Sefat Gh., Ghasemi J., Shahbazi M., Rezaia S., Akhondi M.A. Evaluation of thyroglobulin expression in endometrium of Balb/c female mice during estrous cycle. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Poster presentation)*
- 29) Moravvej A., **Zarnani A.H.**, Jeddi-Tehrani M., Salek-Moghaddam A., Shekarabi M., Ghods R., Kazemi-Sefat Gh., Ghasemi J., Shahbazi M. Rezaia S., Ostad Karampour M., Akhondi M.A. Thyroglobulin is not expressed in pregnancy-related organs of pregnant mice. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*
- 30) Bozorgmehr M., Nikoo Sh., Moazzeni S.M., **Zarnani A.H.** Induction of antigen-specific T cell response by dendritic cells: effect of pregnant mouse serum. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*
- 31) Eftekharian M., Kamal Sarvestani E., **Zarnani A.H.**, Moazzeni S.M., Effect of calciteriol on immunophenotype of dendritic cells in vivo. *9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008 (Oral presentation)*
- 32) **Zarnani A.H.** Immunology of endometriosis, The 1<sup>st</sup> national congress of endometriosis, *Shahid Beheshti University of Medical Sciences, Tehran, Iran, 12-13 Nov 2008 (oral presentation)*
- 33) Mahmoudi A.R., Bayat A.A, Jeddi Tehrani M., Balay goli L., Babaei M., Khakpour J., Barzegar L., **Zarnani A.H.**, Mahmoudian J., Ostadkarampour M., Akondi M.A., Ghods R. Preparation of affinity chromatography column using a polyclonal antibody for purification of mouse IgM. *Proceedings of the 15<sup>th</sup> national & third international congress of biology. Aug 19-21, 2008, University of Tehran (Poster presentation)*

- 34) Shamsipour F. **Zarnani A.H.**, Chamankhah M., Ghods R., Javan M., Forozesh F., Bayat a.A., Oghabian M.A., Jeddi Tehrani M. Conjugation of antibodies to magnetic nanoparticles for detection and treatment of breast cancer. *Proceedings of the 15<sup>th</sup> national & third international congress of biology. Aug 19-21, 2008, University of Tehran (Oral presentation)*
- 35) Tabatabaei A.S., **Zarnani A.H.**, Montaser kouhsari Sh., Jeddi Tehrani M., Chamankhah M., Bayat A.A., Ghods R., Kazemi Sefat Gh., Mahmoudi A.R., Akhondi M.A. Quantum dot nanoparticles: Highly sensitive fluorophores for detection of Her2 expression in breast cancer cells. *7<sup>th</sup> international congress on obstetrics and gynecology. 9-13 NOV 2007, Tehran, Iran (Poster presentation)*
- 36) **Zarnani A.H.** Dendritic Cells as Vectors for Immunotherapy of Tumors: General Guidelines and Optimization, *Seminar on cancer immunotherapy, May 24, 2007, Tehran Univ. of medical sciences. (As main Lecturer)*
- 37) Nikko Sh., Moazzeni S.M., Bozorgmehr M., **Zarnani A.H.** The effect of pregnant mouse serum on IDO induction in dendritic cells. *2<sup>nd</sup> International student award and congress in reproductive medicine, May 11-13, 2007. Fifth winner (Oral presentation)*
- 38) Abbasi N., Jeddi Tehrani M., **Zarnani A.H.**, Dokouhaki P., Ghasemi J., Akhoondi M.M. Expression profile of Indoleamine 2,3-Dioxygenase in endometrium of cycling mice. *8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006 (oral presentation)*
- 39) Shojaeian J., **Zarnani A.H.**, Jeddi Tehrani M. Ghasemi J., Akhoondi M.M. A novel approach for enhancement of antigen presentation by dendritic cells. *8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006 (oral presentation)*
- 40) Mahdavi M., Moazzeni S.M., **Zarnani A.H.** The effect of supernatant from decidual cell cultures on induction of indoleamine 2,3 dioxygenase in dendritic cells during allogenic MLR. *8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006 (oral presentation)*
- 41) **Zarnani A.H.** Antigen presenting cell at the fetomaternal interface (as main lecturer). *8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006 (oral presentation)*
- 42) **Zarnani A.H.**, Immunomodulation and Blood Transfusion, *Seminars on Blood Transfusion Medicine, Zanjan, 30 Nov 2006 (As main Lecturer)*
- 43) **Zarnani AH.**, Mohammadzadeh Kazorghah A., Gaffari Novin M., Arefi S., Modarresi MH., Jeddi Tehrani M. A case report of recurrent hydrops fetalis due to maternal alloimmunization with Kell antigen. *6<sup>th</sup> International congress on obstetrics and gynecology, 25-29 Nov 2005, Tehran Iran (oral presentation)*
- 44) Behjati R., Modarresi MH., Jeddi Tehrani M., Dokouhaki P., Ghasemi J., **Zarnani AH.**, Arabi M., Memariani T., Gaffari Novin M., Tavakolian E., Akhondi MA. Thrombophilic mutations in Iranian patients with infertility and recurrent spontaneous abortion. *6<sup>th</sup> International congress on obstetrics and gynecology, 25-29 Nov 2005, Tehran Iran (oral presentation)*
- 45) **Zarnani AH.** Vitamine D and immunoregulation. *scientific meeting of Avicenna reseach center , 2005 (oral presentation)*
- 46) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Ghods R., Dokouhaki P., Jeddi-Tehrani M. Th2 promoting activity of decidual cell culture supernatants



on Dendritic cells, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**oral presentation**)

47) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeddi-Tehrani M. Characterization of decidual Dendritic cells during mouse normal pregnancy, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**oral presentation**)

48) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeddi-Tehrani M. Cytochemical characteristics of murine splenic Dendritic cells, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**poster presentation**)

49) Shojaeian J., Moazzeni SM., **Zarnani AH.** Functional comparison of Dendritic cells from pregnant and non- pregnant mouse spleen, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**poster presentation**)

50) Roohi A., Khoshnoodi J., **Zarnani A.H.**, Shokri F. Epitope mapping of hepatitis B surface antigen by murine monoclonal antibodies, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004*  
(**oral presentation**)

51) Dokouhaki P., Moghaddam R., Akbari-Asbagh F., Ghasemi J., **Zarnani A.H.**, Shokri F., Razavi SA., Jeddi Tehrani M. Relative usage of TCR-BV gene in endometrium and blood of patients with recurrent spontaneous abortion and normal controls. *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**oral presentation**)

52) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeddi-Tehrani M. Analysis of endometrial myeloid and lymphoid Dendritic cells during mouse estrous cycle, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**poster presentation**)

53) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Heidari M., Dokouhaki P., Jeddi-Tehrani M. The effect of mouse decidual culture supernatants on antigen presentation by Dendritic cells , *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004*  
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54) Shojaeian J., Moazzeni SM., **Zarnani AH.** The effect of pregnant mouse serum on Dendritic cell function, *7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004* (**oral presentation**)

55) Bayat AA., Ghods R., Behjati R., Saboor AA., **Zarnani AH.**, Jeddi Tehrani M., Production and characterization of a monoclonal antibody against ferritin, *The 3rd national congress of biotechnology, Mashhad, 1382* (**oral presentation**)

56) Heidari M., Mahmoodi SAR., Torkabadi E.M., Ghods R., Bayat AA., **Zarnani AH.**, Jeddi Tehrani M., Sadeghi MR., Akhoondi MM. Production of monoclonal antibodies against sperm surface antigens and their characterization, *The 3rd national congress of biotechnology, Mashhad, 1382* (**poster presentation**)

- 57) Talebian A., **Zarnani AH.**, Jeddi Tehrani M., Sadeghi MR. Designing an ELISA method with sperm surface antigens for detection of anti sperm antibody and comparing it with sperm MAR test agglutination assay, *First Iranian conference for cell and developmental biology, University of Tehran,* 2003  
(oral presentation)
- 58) Mahmoodi SAR. Torkabadi EM. Heidari M., **Zarnani AH.**, Jeddi Tehrani M., Sadeghi MR. Characterization of human sperm surface antigens by monoclonal antibody, *First Iranian conference for cell and developmental biology, University of Tehran, 2003* (poster presentation)
- 59) **Zarnani AH.** The role of Indoleamine 2,3 Dioxygenase in immunological tolerance to fetus, *scientific meeting of Avicenna Research Center,* 2003  
(oral presentation)
- 60) **Zarnani AH.** Th1/Th2 cytokine pattern of feto-maternal interface, *scientific meeting of Avicenna research center , 2003* (oral presentation)
- 61) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Heidari M., Dokouhaki P., Jeddi-Tehrani M. Effect of supernatant from short culture of mouse decidual tissues on antigen presentation by Dendritic cells, *The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences ,( 2003)* (oral presentation)
- 62) Shojaeian J., Moazzeni SM., **Zarnani AH.** Effect of pregnant mouse serum on dendritic cell function. *The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences,* (2003)  
(poster presentation)
- 63) Mahmoodi SAR. Torkabadi EM. Heidari M., Ghods R., **Zarnani AH.**, Akhoondi M.M., Parivar K., Jeddi Tehrani M., Sadeghi MR. Characterization of sperm surface antigen by 4F7G7 monoclonal antibody. *The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences ,( 2003)* (oral presentation)
- 64) Torkabadi E., **Zarnani A.H.**, Jeddi Tehrani M., Sadeghi M.R., Akhoondi M.M. Acrosome reaction assay by flow cytometry and comparison with triple staining and Quinacrine epifluorescence. *The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences, ( 2003)* (poster presentation)
- 65) Torkabadi E., **Zarnani A.H.**, Jeddi Tehrani M., Sadeghi M.R., Pakzad P., Akhoondi M.M. DNA vaccines and infertility. *The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences ,( 2003)* (oral presentation)
- 66) **Zarnani AH.** The aims of quality control in blood transfusion services, *seminar on problems and aims of blood transfusion services, Zanjan Univ. of medical sciences, Zanjan, Iran, 2002* (oral presentation)
- 67) **Zarnani AH.** Preparation and storage of cellular products of blood, *seminar on problems and aims of blood transfusion services ,Zanjan Univ. of medical sciences , Zanjan ,Iran, 2002* (oral presentation)

- 68) **Zarnani AH.**, Moazzeni SM., Shokri F., Salehnia M., Jeddi-Tehrani M. Purification of Dendritic cells from mouse spleen, 6<sup>th</sup> Iranian congress of immunology and allergy, Iran University of Medical sciences, Tehran Iran, 7-9 may 2002 (**poster presentation**)
- 69) **Zarnani AH.**, Vazirian F. Pinworm dermatitis ,report of two cases, 5<sup>th</sup> conference of immunology and allergy, Tarbiat Modarres Univ. Tehran, Iran 2000 (**oral presentation**)
- 70) **Zarnani AH.**, Modarres Sh., Jadali F., Sabahi F., Moazzeni SM., Vazirian F. Role of rotaviruses in children suffering from acute gastroenteritis , 12<sup>th</sup> International congress on pediatric diseases, Tehran Univ. of medical sciences, Tehran, Iran 2000 (**oral presentation**)

## **Presentations (International)**

- 1) Zarei S., Farhad Khosravi F., Akbarzadeh Pasha Z., Reihani-Sabet F., Savadi Shiraz E., Mohammadzadeh A., Abedi ZH., Khoram khorshid HR., **zarnani AH.**, Tavangar B., Ahmadvand N., Jeddi Tehrani M. FREQUENCIES OF METHYLENETETRAHYDROFOLATE REDUCTASE, PLASMINOGEN ACTIVATOR INHIBITOR-1, FACTOR V LEIDEN POLYMORPHISMS IN 600 CASES OF IRANIAN WOMEN WITH RECURRENT PREGNANCY LOSS. 4<sup>th</sup> International Congress of Molecular Medicine June 2011 27-30 Istanbul, Turkey (**Poster Presentation**)
- 2) Zarei S., Jeddi-Tehrani M., Torabi R., Mohammadzadeh A., Arefi S., Keramatipour M., Zeraati H., **zarnani AH.**, Akhondi MM., Mahmoudian J., Mahmoudi M. ANALYSIS OF PLASMINOGEN ACTIVATOR INHIBITOR-1, INTEGRIN BETA 3, BETA FIBRINOGEN AND METHYLENETETRAHYDROFOLATE REDUCTASE POLYMORPHISMS IN IRANIAN WOMEN WITH RECURRENT PREGNANCY LOSS. 4<sup>th</sup> International Congress of Molecular Medicine June 2011 27-30 Istanbul, Turkey (**Poster Presentation**)
- 3) Somaieh Kazemnejad, Mohammad Mehdi Akhondi, **Amir Hassan Zarnani**, Masoud Soleimani, Saeideh Darzi, Manijeh Khanmohammadi. Effect Of Lithium Chloride On  $\beta$ -Catenin Expression, ProlifeRation And Osteogenic Differentiation Of Human Menstrual Blood Derived Stem Cell. *Tissue Engineering & Regenerative Medicine International Society*, 15-17 September 2010, Sheraton On The Park, Sydney Australia (**Oral Presentation**)
- 4) Saideh Darzi, Somaieh Kazemneiad, Mahmood Jeddi-Tehrani, Kobra Entezamit. Zahra Vahedian, Mohammad Mehdi Akhondi & **Amir Hasan Zamani**. Remarkable OSTEOGENIC DIFFERENTIATION OF HUMAN MENSTRUAL BLOOD DERIVED STEM CELLS IN PRESENCE OF HUMAN PLATELET RELEASATE. *Tissue Engineering & Regenerative Medicine International Society*, 15-17 September 2010, Sheraton On The Park, Sydney Australia (**Oral Presentation**)
- 5) Somaieh Kazemnejad, Mohammad Mehdi Akhondi, **Amir Hassan Zarnani**, Masoud Soleimani, Saeideh Darzi, Manijeh Khanmohammadi. Effect Of Lithium Chloride On  $\beta$ -Catenin Expression, ProlifeRation And Osteogenic Differentiation Of Human Menstrual Blood Derived Stem Cell. *Tissue Engineering & Regenerative Medicine International Society*, 15-17 September 2010, Sheraton On The Park, Sydney Australia (**Poster Presentation**)
- 6) Saideh Darzi, Somaieh Kazemneiad, Mahmood Jeddi-Tehrani, Kobra Entezamit. Zahra Vahedian, Mohammad Mehdi Akhondi & **Amir Hasan Zamani**. Remarkable OSTEOGENIC

DIFFERENTIATION OF HUMAN MENSTRUAL BLOOD DERIVED STEM CELLS IN PRESENCE OF HUMAN PLATELET RELEASATE. *Tissue Engineering & Regenerative Medicine International Society, 15-17 September 2010, Sheraton On The Park, Sydney Australia(Poster Presentation)*

- 7) Somaieh Kazemnejad, Mohammad Mehdi Akhondi, Masoud Soleimani, **Amir Hassan Zarnani**, Fatemeh MohammadPoor, Mahnaz Heidari, Sheida Salehkhoh. CHONDROGENIC DIFFERENTIATION OF MENSTRUAL BLOOD DERIVED STEM CELLS ON A NANOFIBROUS SCAFFOLD. *Tissue Engineering & Regenerative Medicine International Society, 15-17 September 2010, Sheraton On The Park, Sydney Australia(Oral Presentation)*
- 8) M. Salavati, M.S. Poormasjedi Meibod, M. Jeddi-Tehrani, **A.H. Zarnani**, M. Vojgani, H. Rabbani, M. M. Akhondi, A. R. mahmoudi, R. Ghods. The establishment of a sandwich ELISA based on a homemade polyclonal antibody for earliest detection of pregnancy associated glycoprotein. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 9) S. Rezaia, **A. H. Zarnani**, N. Amirmozzafari, H. Rabbani, M. Mosallaei, L. Katoozian, N. Rashidi. Cell Lines of divers origin have differential gene expression profile of Toll like receptor families. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 10) M. S. Poormasjedi Meibod, M. Salavati, M. Jeddi-Tehrani, **A. H. Zarnani**, M. Vojgani, H. Rabbani, M. M. Akhondi, A. R. Mahmoudi, R. Ghods. Production of Polyclonal antibodies against a Pregnancy Associated Glycoprotein's peptide: application for affinity Purification and Characterization of protein from Iranian Holstein cattle placental and blood samples. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 11) E. Torkabadi, M. Jeddi-Tehrani, **A. H. Zarnani**, G. E. Kazemi Sefat, J. Ghasemi, M. M. Akhondi. Indoleamin 2,3-dioxygenase (IDO) is expressed at fetoplacental unit throughout mouse gestation: An immunohistochemical Study. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 12) S. Darzi, S. Kazemnejad, **A. H. Zarnani**, M. Jeddi-Tehrani, K. Entezami, M. Akhondi, M. Torabi Rahvar. Differentiation capacity Of menstrual blood stromal stem cells towards Osteocytes. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 13) S. Nikoo, **A. H. Zarnani**, M. Ebtekar, M. Jeddi-Tehrani, M. bozorgmehr, Z. Vahedian. Menstrual blood-derived stromal stem cells: potential application for cell therapy. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 14) M. Mahmoudi, M. J. Mahmoudi, F. Siasi, F. Shokri, M. R. Eshraghian, **A. H. Zarnani**, N. Rezaei, A. Saboor-Yaraghi. Effect Of Vitamin A Supplementation on reducing cytotoxic effect of oxLDL in Patients with atherosclerosis. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 15) S. Shojaeian, **A. H. Zarnani**, M. Jeddi-Tehrani, A. A. Allameh, E. Torkabadi. Quantum Dot nanoparticles: Promising results for early detection of ovarian cancer. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 16) M. Torabi Rahvar, **A. H. Zarnani**, H. Rabbani, E. Torkabadi, N. Mojtavavi, R. Hadavi, S. Darzi. Establishment of a novel murine cell Line expressing human Her2/neu: An appropriate model for human breast cancer. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*

- 17) M. Karami Golbaghi, N. Mojtabavi, **A. H. Zarnani**, A. Salekmoghadam, A. Sadeghipoor. Investigation of changes in allergic mice after injection of cancerous cell line. *14<sup>th</sup> International Congress Of Immunology Kobe, Japan, AUGUST 2010 (Poster Presentation)*
- 18) Farzadtabar m., Talebi s., Edalatkhak H., Eini L., **Zarnani AH.**, Razzaghi Kashani F., Ardekani AM. The role of estradiol in regulation of GnRH receptor gene expression in mouse endometrial tissue, *16<sup>th</sup> national and first international congress of Iranian society for reproductive medicine., 3-5 Mar 2010, Shiraz, Iran (Oral presentation)*
- 19) Hedayat Z, Mohammadzade V, Javadi H, Sadeghi MR, Akhondi MM, Sadeghitabar A, **Zarnani AH**, (IR), Higher frequency of anti-thyroid antibodies in patients with recurrent spontaneous abortion may stem from impaired vitamin D3 metabolism, *14<sup>th</sup> world congress gynecological endocrinology, 4-7 Mar 2010, Italy (Oral presentation)*
- 20) **A.H. Zarnani**, J. Shojaeian, M. Jeddi-Tehrani, A. Kalantari, S. Nikoo, M. Bozorgmehr, Mutual helper effect in dendritic cell based vaccines, A new strategy for simultaneous immunotherapy against tumors and infectious diseases, *9th international congress on new trends in immunosuppression & immunotherapy, 4-6 2010, Geneva, Switzerland (Poster presentation)*
- 21) M.M. Eftekharian, **A.H. Zarnani**, S.M. Moazzeni, in vivo effects of vitamin D3 on dendritic cells, *9th international congress on new trends in immunosuppression & immunotherapy, 4-6 2010, Geneva, Switzerland (Poster presentation)*
- 22) A Moravejt, **A. H. Zarnani**, M Jeddi-Tehrani, M. Shekarabi, M Shahbazi. ASSESSMENT OF THYROGLOBULIN GENE EXPRESSION IN REPRODUCTIVE ORGANS OF BALB/C FEMALE MICE, *The 3rd ASIA PACIFIC CONGRESS ON CONTROVERSIES IN OBSTETRICS GYNECOLOGY & INFERTILITY BEIJING CHINA, 12-15 NOVEMBER 2009 (Poster Presentation)*
- 23) S. Nikoo, M. Ebtekar, M. Jeddi-Tehrani, M.Tavakoli, Z. Vahedian, M.A. Akhondi, **A.H. Zarnani**. Menstrual blood-derived stromal stem cells: potential application for cell therapy, *8<sup>th</sup> international congress on obstetrics and gynecology, 5-9, 2009, Tehran, Iran (Oral presentation)*
- 24) S. Darzi, S. Kazemnejad, M. Jeddi-Tehrani, K. Entezami, Z. Vahedian, M.A. Akhondi<sup>2</sup>, **A.H. Zarnani**, Osteogenesis differentiation of menstrual blood stromal stem cells, *8<sup>th</sup> international congress on obstetrics and gynecology, 5-9, 2009, Tehran, Iran (Oral presentation)*
- 25) M. sahbazi, M. Jeddi Tehrani, A. salek Moghaddam, A. Kalantari, J. Ghasemi, S. Rezania, A. Moravej, Gh. Kazemi sefat, M.A. akhondi, **A.H. Zarnani**, Profiling of murine vitamin D3 receptor in reproductive organs during different stages of estrus cycle and pregnancy. *6<sup>th</sup> European congress of reproductive immunology, Moscow, Russia, June 30-July 3, 2008 (Oral presentation)*
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### **Presentation as Keynote Speaker:**

- 1) **Zarnani A.H.** Immunology in Infertility. 17<sup>th</sup> National & 2<sup>th</sup> International Congress Of Iranian Society For Reproductive Medicine. 2-4 March, 2011, Tehran – Iran.

- 2) **Zarnani A.H.** Anti-thyroid antibodies and pregnancy loss: lessons from murine models. 16<sup>th</sup> national and first international congress of Iranian society for reproductive medicine., 3-5 Mar 2010, Shiraz, Iran
- 3) **Zarnani A.H.**, Quantum Dot nanoparticles: Promising results for early detection of ovarian cancer, 3<sup>rd</sup> congress of application of nanotechnology in medicine, Feb 2010, Tehran, Iran
- 4) **Zarnani A.H.**, Emerging role of vitamin D3 in reproductive immunology, 9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008
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## Awards:

- 1) Selected as the distinguished researcher by the Iran mystery of science, research and technology, 2009
- 2) Royan international research award, Best research project in female fertility field. 2007, dedicated to my supervisor, Prof. Moazzeni
- 3) Selected as first rank Ph.D student in basic sciences by the 12<sup>th</sup> Razi Research Festival of Medical Sciences, 2007

- 4) Selected as distinguished doctor of medical laboratory sciences by Iranian council of medicine. *2005*
- 5) FOCIS award, 12<sup>th</sup> international congress of immunology, Montreal, Canada, *18-23 July 2004*
- 6) ICI award, 12<sup>th</sup> international congress of immunology, Montreal, Canada, *18-23 July 2004*
- 7) Winner of the 10<sup>th</sup> Iranian student year book award, *2003*.