

# CURRICULUM VITAE

**Name:** Amir Hassan Zarnani

**Date of Birth:** 3 Apr 1964

**Sex:** Male

**Marital Status:** Married with two children

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## Education:

Post doctoral fellowship: Avicenna Research Institute, Tehran, Iran (2004-2008)

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 and polyclonal 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, Immunohistochemistry, Immunofluorescence
- Tissue and cell culture
- Hybridoma technique and production of monoclonal antibody
- Photometry

- ELISA
- PCR
- MLR
- Cell proliferation assays
- Mouse and rat reproductive biology
- Cancer Immunotherapy

### **Administration:**

- 1) Scientific Committee of the Endometriosis Association of Reproductive Medicine, 2013
- 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 2009)
- 4) Head of Nanobiotechnology Research Center, Avicenna Research Institute, Tehran, Iran (From 2009)
- 5) Deputy of Research, Immunology Research Center, Iran University of medical sciences (From 2007)
- 6) Consultant of immunological problems in infertility and recurrent abortion, Avicenna Research Institute (ARI) (from 2004)
- 7) Head of Reproductive Immunology Department, Reproductive Biology and Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran (From 2003)
- 8) Researcher of Avicenna Research Institute, Department of Immunology, Monoclonal Antibody Research Center (from 2003)
- 9) Head of diagnostic laboratories of several governmental hospitals (1992-1998)
- 10) Member of Scientific committee, Avicenna Research Institute (2008-)
- 11) Member of evaluation, interview and recruitment committees for Research-oriented PhD students, Avicenna Research Institute, from 2012
- 12) Member of committee for post-graduate education, Avicenna Research Institute, from 2012
- 13) Member of technology committee of stem cell research organization, from 2009
- 14) Member of nanotechnology organization of ministry of health and medical education (from 2011)

- 15) Member of technology committee of stem cell foundation (from 2011)
- 16) Member of technology committee of ministry of health and medical education (from 2011)

**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
- 13) Iranian Journal of Basic Medical Sciences
- 14) Biotechnology and Applied Biochemistry
- 15) Gynecological Endocrinology
- 16) Plos One

**Editorial Board of scientific journals:**

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

**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)
- Immunohistochemistry for Ph.D and M.Sc students of Immunology (2012)
- Immunochemistry for Ph.D and M.Sc students of Immunology (2012)
- Research highlights and technical notes for Ph.D and M.Sc students (From 2011)
- Reproductive Immunology for Ph.D. students (2013)

### **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 endometriun 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 Rezania: 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).
- 9) The evaluation of Transfected Mice Dendritic Cells by Atg8/Lc3 and AlphaLactalbumin fusion gene in Immune Responses to Alpha-lactalbumin (MohammadReza Bolouri, Shahid beheshti university of medical sciences)

- 10) The Study of Anti Tumor Effect of hAEc Immunization on Induced colon Adenocarcinoma in Balb/c mice. (Meeraj Tabatabaei, The university Of Shahid Beheshti)
- 11) Effect of trophoblast-derived kisspeptin on proliferation, invasion and adhesion of breast cancer cells (Zahra Rasoulzadeh, Tabriz 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 endometriun 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 (Mehrnoush 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 Shir-shahi, Tehran University of Medical Sciences).
- 15) Neural differentiation Potential of Human Mesenchymal Stem Cells derived from menstrual blood and bone Marrow (Fereshte Azedi, Shahid Beheshti University of Medical Sciences).
- 16) Isolation and Culture of Spermatogonial Stem Cell (Maryam Rahmati Ahmad Abadi, The University Of Oroumie)
- 17) Comparison of different methods for purifying stem cell spermatogonia goat (Minoo Geifani: Student at International Immunology Aras).

### **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) Comparative investigation of stem cells derived from human menstrual blood and bone marrow differentiate to cardiomyocytes in 2D and 3D condition (Maryam Rahimi, Tarbiat Moalem University Of Tehran).
- 7) Evaluation of the immunohistopathologic and therapeutic effects of anti Siglec-F antibody in the lung of a mouse model of breast cancer and allergic asthma (Sima Shah Mohammadi Farid, Tehran University of Medical Sciences)

- 8) Effect of anti PLAC1 antibodies on cancerous behavior of breast cancer cell lines *in vitro* and *in vivo* (Roya Ghods, Tehran University of Medical Sciences)
- 9) Study of resveratrol and etoposide mechanisms on HepG2 and HCT-116 cell lines in hyperinsulinemia (Fatemeh sadate Amiri, Tehran University of Medical Sciences)

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

- 1) Production of chimeric anti HBs monoclonal antibodies for prophylaxis of HBV infection (Forough Golsaz Shirazi: Iran university of Medical Sciences ).
- 2) Designing of a Quantum Dot-based fluoroimmunoassay for measurement of serum CA125 in patients with ovarian cancer (Sorour Shojaeian: Tarbiat Modarres University).
- 3) 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).
- 4) Analysis of vitamin D3 metabolism and its immunomodulatory effects in women with recurrent spontaneous abortion (RSA) (Maryam Tavakkoli: Iran University of Medical Sciences).
- 5) 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).
- 6) 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).
- 7) The Study of Potency of Differentiation of Male Mouse Bone Marrow Stem Cells to Spermatogonial Stem Cells (Reza Shirazi: Tehran University of Medical Sciences).
- 8) 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).
- 9) Study the profile of luteinizing hormone (LH) receptor in hippocampus of castrated rat model (Hosein Abtahi: Iran University of Medical Sciences).
- 10) Evaluation of the role of Sort-1 in survival of ovarian cell lines. (Fatemeh Ghaemi manesh: Tarbiat modarres university).
- 11) 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).

- 12) 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).
- 13) Effect of pomegranate extract consumption on sepsis induced oxidative stress, inflammatory response and clinical progress in CLP model of sepsis in rats (Sanaz Tavassoli, Tehran University of Medical Sciences).
- 14) 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).
- 15) 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, Tehran University of Medical Sciences).
- 16) Seroreactivity determination of Brucellosis patient serum to recombinant protein Resulting of cloning and expression of *Brucella melitensis* *VirB12* gene (Shiva Mir-Kalantar, Tehran University Of Medical Sciences)
- 17) Study of the induction of apoptosis by umbelliprenin on CLL cell line (Omid Gholami, Shahid Beheshti university of Medical Sciences)
- 18) Molecular and cellular (patho)physiology of G protein activated inwardly activated rectifying potassium channel sununits in breast cancer cells. (Simin Rezanian, Medical University of Graz, Austria)

### **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-parthy 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.
- 18) 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.
- 19) Effect of LPS and LTA on proliferation of some cancerous cell lines.
- 20) Immunomodulatory effects of vitamin D3 in the endometrium Of women with unexplained recurrent implantation failure.
- 21) Evaluation of the potential role of Menstrual Blood Stromal Stem Cells in induction of endometriosis.

- 22) Immunophenotyping of menstrual and peripheral blood leukocytes in fertile and infertile women and women with unexplained recurrent spontaneous abortion.
- 23) Evaluation of vitamin D3 metabolism in women with recurrent spontaneous abortion.
- 24) Analysis of vitamin D receptor (VDR) expression in patients with non-obstructive azoospermia.
- 25) Evaluation of immunotherapeutic effects of dendritic cells co-pulsed with tumor antigen and a third party antigen in tumor bearing mice.

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

- 1) Effect of trophoblast-derived kisspeptin on proliferation, invasion and adhesion of breast cancer cells.
- 2) Production of new generation of anti-cancer vaccines: A national project.
- 3) Establishment of therapeutic monoclonal antibody technology in Iran; Phase 1: Laboratory scale production of anti-Her2 therapeutic monoclonal antibody. A national project.
- 4) Frequency of anti-thyroid antibodies in patients with endometriosis.
- 5) Assessment of apoptosis and angiogenesis factors (VEGF and Angiopoetin) in human ovarian cortex after transplantation in nude mice.
- 6) Study the profile of luteinizing hormone (LH) receptor in hippocampus of castrated rat model.
- 7) The Study of Potency of Differentiation of Male Mouse Bone Marrow Stem Cells to Spermatogonial Stem Cells.
- 8) 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.
- 9) 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.
- 10) Comparison of phenotypic characteristics and cardiogenic differentiation potential of human menstrual blood derived stem cells with bone marrow-derived mesenchymal stem cells.
- 11) 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.
- 12) Production of monoclonal antibody against leptin.
- 13) Investigation of LH receptor isoforms and its relation to apoptosis in hippocampus of castrated rats.
- 14) Hepatic differentiation of human menstrual blood-derived stem cells.
- 15) 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.

- 16) Production of anti-Her2 monoclonal antibodies with potential capacity of apoptosis induction in Her2 positive cells.
- 17) Production of chimeric anti-Her2 monoclonal antibodies with potential capacity of apoptosis induction in Her2 positive cells.
- 18) Study of resveratrol and etoposide mechanisms on HepG2 and HCT-116 cell lines in hyperinsulinemia
- 19) Study on anti-tumor effects of tin (IV) carboxylates
- 20) Effects of new cytotoxic platinum complex
- 21) The Study of Anti- Tumor Effect of hAEC Immunization on Induced Colon Adenocarcinoma in Balb/C Mice
- 22) Application of gold nanoparticles for protein determination in Western blot and Elisa methods
- 23) Design of gold nanorods with fluorescent properties in order to detection and thermal therapy of cancer cells simultaneously
- 24) Design and synthesis of smart nanohydrogel for drug delivery
- 25) Synthesis and application of titanium dioxide nanoparticles (TiO<sub>2</sub>) on antibiotic-resistant and antibiotic-sensitive bacteria
- 26) Synthesis of anti-HER2 immunoliposomes containing 1-Methyl tryptophan and Doxorubicin for breast cancer immunotherapy: Phase1; in vitro experiments
- 27) Design and MACS columns
- 28) 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
- 29) Of phenotypic characteristics, potential for cardiac differentiation of stem cells derived from human menstrual blood than bone marrow-derived mesenchymal stem cells
- 30) Design, Synthesis and Functionalization of QD525 Nanoparticles
- 31) Production of monoclonal antibodies against human SSEA-3 / SSEA-4 / SOX-2 / TRA-1-60 / NANOG / CD29 / CD90 / CD166 / CD106 / CD11b / CD14 / CD31 / CD45 and mouse SSEA1
- 32) Production of Protein A Columns.
- 33) Effect of anti PLAC1 antibodies on cancerous behavior of breast cancer cell lines *in vitro* and *in vivo*.

## **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 nanoparticles 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 17th National And 5th International Iranian Biology Conference. Shahid bahonar University Of Kerman. 4-6 September 2012.
- 2) 1st National Conference on Multi-Component Reactions, Kerman, Iran, 30,31 May 2012
- 3) 19<sup>th</sup> Iranian Seminar on Organic Chemistry, Vali-e-Asr University of Rafsanjan, 5 -7 Sep. 2012
- 4) ESHRE meeting, Istanbul, Turkey, 1-4 July 2012
- 5) 10th Annual Meeting International Society for Stem cell Research (ISSCR) Yokohama, Japan. 13-16 June 2012
- 6) Joint International Congress of the American Society for Reproductive Immunology (ASRI) & the European Society for Reproductive Immunology (ESRI), Hamburg, Germany. 31 May – 2 Jun 2012.
- 7) 4<sup>th</sup> Congress of Reproductive Health Research Center Shahid Beheshti University of Medical Sciences. 7 March 2012.
- 8) 11th International Congress of immunology & Allergy. April 2012. Tehran, Iran
- 9) 3<sup>rd</sup> International and 18<sup>th</sup> National Congress Of Iranian Society For reproductive Medicine. April 2012

- 10) 4<sup>th</sup> International Conference on nanostructures. 12-14 March 2012, Kish Island, I.R. Iran.
- 11) 4<sup>th</sup> Yazd International Congress and Student Award in Reproductive Medicine. 15-17 April 2011. Yazd. Iran.
- 12) 4<sup>th</sup> International Congress of Molecular Medicine, Istanbul. Turkey. 27-30 June 2011.
- 13) 12<sup>th</sup> Congress of Biochemistry & 4<sup>th</sup> International Congress of Biochemistry and molecular Biology, Mashhad. Iran, September 2011.
- 14) 9<sup>th</sup> International Congress on Obstetrics and Gynecology/Nov.2011. Iran. Tehran.
- 15) Österreichische Gesellschaft für Allergologie und Immunologie, Austria, 2011
- 16) The 4<sup>th</sup> International & 9<sup>th</sup> National Congress on Quality Improvement in Clinical Laboratories, Tehran, 2011
- 17) 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010
- 18) Tissue Engineering & Regenerative Medicine International Society, 15-17 September 2010, Sheraton On The Park, Sydney Australia
- 19) 6<sup>th</sup> Congress On Stem Cell Biology & Technology, 15-17 September 2010, Royan Institute Tehran Iran
- 20) 14th International Congress Of Immunology Kobe, Japan, 22-27 AUGUST 2010
- 21) Genetics, Law, Ethics, Psychology, Tehran, 10-11, Nov 2010
- 22) New approaches for early detection of diseases (Immunocolus), Rasool akram Hospital, Tehran, 2010
- 23) 10<sup>th</sup> international congress of immunology and allergy of Iran, 18-20 May 2010, Shahid Beheshti University, Tehran, Iran
- 24) Seminar on molecular basis of cancer, 28 Feb 2010, Tehran, Iran.
- 25) Laser microdissection, Baghiat allah Research Center, 20-22 Dec 2009
- 26) 8<sup>th</sup> international congress on obstetrics and gynecology, 5-9 Nov, 2009, Tehran, Iran.
- 27) 16<sup>th</sup> national and first international congress of Iranian society for reproductive medicine, 3-5 Mar 2009, Shiraz, Iran.

- 28) 9th international congress on new trends in immunosuppression & immunotherapy, 4-6 2010, Geneva, Switzerland.
- 29) 14<sup>th</sup> world congress gynecological endocrinology, 4-7 Mar 2010, Italy.
- 30) 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.
- 31) The 1<sup>st</sup> national congress of endometriosis, Shahid Beheshti University of Medical Sciences, 12-13 Nov 2008.
- 32) 6<sup>th</sup> European congress of reproductive immunology, Moscow, Russia, June 30-July 3, 2008.
- 33) 9<sup>th</sup> Iranian congress of immunology and allergy, Tehran, Iran, June 17-19, 2008.
- 34) Congress on application of nanotechnology in medicine, Iran university of Medical Sciences, 13 NOV 2007.
- 35) 13th International Congress of Immunology, Rio de Janeiro, Brazil, Aug 21-25, 2007.
- 36) 2<sup>nd</sup> International student award and congress in reproductive medicine, May 11- 13, 2007. Yazd, Iran.
- 37) 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.
- 38) 1<sup>st</sup> Mediterranean workshop of clinical Immunology, Evora, Portugal, 26-29 OCT 2006.
- 39) 8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006.
- 40) 3rd European congress of Reproductive Immunology, University of Essex, UK. 11-15 Sep, 2005.
- 41) 6<sup>th</sup> international congress on obstetrics and gynecology, November 25-29, 2005, Tehran, Iran.
- 42) The 1st congress on immunological aspects of fertility and infertility, Isfahan Univ. of medical sciences, 14-15 Jan 2004.
- 43) 7<sup>th</sup> Iranian congress of immunology and allergy Mashhad 4-7 may 2004.
- 44) 12<sup>th</sup> international congress of immunology, Montréal, Canada, 18-23 July 2004.
- 45) 10<sup>th</sup> annual meeting of Middle East fertility society, Beirut, Lebanon, 10-13 Dec 2003.
- 46) First Iranian congress for cell and developmental biology, University of Tehran, 13-14 Sep 2003.



- 47) Seminar on environmental factors and infertility, Avicenna Research Institute, Tehran Iran 2002.
- 48) 6<sup>th</sup> Conference of immunology and allergy, Iran Univ. of medical sciences, Tehran, Iran, 7-9 May 2002.
- 49) Scientific meeting of Indian society for histocompatibility and immunogenetics ,All Indian Institute of medical sciences, New Delhi 2001.
- 50) 12<sup>th</sup> International congress on pediatric diseases, Tehran Univ. of medical sciences, Tehran, Iran 2000.
- 51) 5<sup>th</sup> conference of immunology and allergy, Tarbiat Modarres Univ. Tehran, Iran, 17-19 May 2000.
- 52) Basic and Clinical NEUROSCIENCE CONGRESS 2012, Tehran, Iran, Razi Convention Center,7-9 Nov 2012.
- 53) Molecular Immunology & Immunogenetics Congress, 2012.
- 54) 24<sup>th</sup> International congress of pediatrics & 10<sup>th</sup> National congress of pediatric Nuersing, October 11-15, 2012, Tehran-Iran.
- 55) 5<sup>th</sup> Yazd International Congress and Student Award in Reproductive medicine. Yazd, May-April 2013.
- 56) 20<sup>th</sup> Iranian Seminar Of Organic Chemistry, 3-5 JULY 2013, FACULTY Of Chemistry Bu-Ali Sina University Hamedan.
- 57) The 16<sup>th</sup> Iranian Chemistry Congress. Yazd University – September 2013.
- 58) World Congress Advanced Materials, Izmir, Turkey. 16-19 September 2013.

#### **Conferences as Scientific Committee:**

- 1) Scientific Committee of the Endometriosis Association of Reproductive Medicine, 2013
- 2) 2<sup>nd</sup> national congress of endometriosis, ARI, Tehran, Iran, 2012
- 3) 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010
- 4) Genetics, Law, Ethics, Psychology, Avicenna Research Institute Of Iran 10-11 Nov 2010
- 5) 10<sup>th</sup> International Congress of Immunology & Allergy of Iran. May 18-20, 2010. Tehran.

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

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

- 1) R. Ghahremanzadeh, H. Naeimi, **A. H. Zarnani**, Z. Rashid. one-pot synthesis of spiro-furo-pyrido-pyrimidine-indoline derivatives by using a highly active magnetically reusable nanocatalyst in green media. *The 16th Iranian Chemistry Congress. Yazd University – September 2013. (Poster Presentation).*
- 2) H. Naeimi, R. Ghahremanzadeh, **A. H. Zarnani**, Z. Rashid. synthesis of novel spirooxindoles in the presence of magnetic nanoparticles as a recoverable and reusable catalyst in PEG-400. *The 16th Iranian Chemistry Congress. Yazd University – September 2013. (Poster Presentation).*
- 3) Bahadori M, Zarei S, Idali F, Zarei O, **Zarnani AH**, Jeddi Tehrani M. Investigation on the association of cytokine gene polymorphisms with recurrent miscarriage. *19th International Congress on Infertility, and Reproduction. Iranian Journal of Reproductive Medicine, Vol. 11, No 5 (Suppl. 2), May 2013. (Poster Presentation).*
- 4) Mohazzab\_ A, Aminlou M, Akbari E, Akhondi MM, **Zarnani AH**, Shirzad M, Shervin A. Asscssment of symptom distribution in patients with endometriosis. *19th International Congress on Infertility, and Reproduction. Iranian Journal of Reproductive Medicine, Vol. 11, No 5 (Suppl. 2), May 2013. (Oral Presentation).*
- 5) Ramin Ghahremanzadeh, Hossein Naeimi, **Amir Hassan Zarnani**, Zahra rashid. Using magnetic nanoparticles as reusable catalyst for the synthesis of novel spirooxindoles in water. *20th Iranian Seminar Of Organic Chemistry, 3-5 JULY 2013, FACULTY Of Chemistry Bu-Ali Sina University Hamedan. (Poster Presentation).*

- 6) Amir Ghasemi, Mohammad Hossein Salari, **Amir Zarnani**, Mahmood Jeddi-Tehrani. Study the potential of B. melitensis Omp31, Dnak, Hsp and TF proteins in inducing in vitro and in vivo immune responses in BalB/c mice. *The 6th International & 11th National Congress on Quality Improvement in Clinical Laboratory April 20-23, 2013. (Poster Presentation).*
- 7) Amir Ghasemi, Mohammad Hosein Salari, **Amir Hassan Zarnani**, Mahmood Jeddi-Tehrani. Study the potential of Brucella melitensis recombinant HSP in conferring protection against. *The 6th International & 11th National Congress on Quality Improvement in Clinical Laboratory April 20-23, 2013. (Oral Presentation).*
- 8) Ramtin Hadighi, Narges shahmohamad, **Amir Hassan Zarnani**, Reza Ranjbar, Lame Akhlaghi. Validation of In Vitro Assays for the Screening of Drug Activity Against Leishmania tropica. *The 6th International & 11th National Congress on Quality Improvement in Clinical Laboratory April 20-23, 2013. (Poster Presentation).*
- 9) Delbandi AA, Mahmoudi Mr, **Zarnani AH**. Evaluation of anti-tumor and anti-inflammatory effects of vitamin D3 in endometrioma. *5th Yazd International Congress and Student Award in Reproductive medicine. Yazd, May-April 2013. (Oral Presentation).*
- 10) Nikoo S, Ebtekar M, Jeddi Tehrani M, **Zarnani AH**. Immunological evaluation and comparison of normal and endometriosis menstrual blood stromal stem cell. *5th Yazd International Congress and Student Award in Reproductive medicine. Yazd, May-April 2013. (Oral Presentation).*
- 11) Bahadori M, Zarei O, Zarei S, **Zarnani AH**, Jeddi Tehrani M. Investigation on the association of cytokine gene polymorphisms with recurrent miscarriage. *5th Yazd International Congress and Student Award in Reproductive medicine. Yazd, May-April 2013. (Poster Presentation).*
- 12) Fatemi R, Vahedian Z, Mirzadegan E, Mahdavi-pour M, **Zarnani AH**, Jeddi-Tehrani M, Idali F. Role of 17- $\beta$  oestradiol for induction of regulatory T cells. *5th Yazd International Congress and Student Award in Reproductive medicine. Yazd, May-April 2013. (Poster Presentation).*
- 13) Momeniha M, Mohazzab A, Aminloo M, Shadjoo Kh, **Zarnani A.H**, Ghoojani A, Shervin A. A Comparison between Preoperative CA125 Serum Levels of Endometriotic and Non-endometriotic Patients in a Referral Laparoscopic Clinic in Iran between the Years of 2006-2011. *2nd National Congress on Endometriosis (Oral Presentation).*
- 14) Mina Amin lou, Azadeh Basharkhah, Abolfazl Ghoojani, **Amir-Hassan Zarnani**, Mohammad-mehdi Akhondi, Elham Akbari, Adel Shervin. Assessment of Symptoms, Signs, Physical Examination and Performed Laparoscopic Treatment for

Intestinal Endometriosis in a Referral Endometriosis Clinic in Iran between the Years of 2006-2011. *2nd National Congress on Endometriosis (Oral Presentation)*.

- 15) Parvin Jaberipour, Arash Mohazzab, Mahdi Shirzad, Mohammad-mehdi Akhondi, Mina Aminlou, Malihe Zaman Momeniha, Adel Shervin. Assessment of Pain Decrease and Fertility Increment as Indices of Quality of Life after Laparoscopic Resection in Endometriotic Patients. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 16) Nikoo Sh, Ebtekar M, **Zarnani A.H**, Jeddi-Tehrani M. Dioxin effect on immune system function in endometriosis patients. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 17) Nikoo Sh, Ebtekar M, **Zarnani A.H**, Jeddi-Tehrani M. Effect of Dioxin on CD9 and CD29 Expression by Normal and Endometriosis Menstrual Blood Stromal Stem Cells. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 18) Delbandi A.A, Mahmoudi M, Shervin A, Akbari E, Jeddi-Tehrani M, Sankian M, **Zarnani A.H**. Evaluation of Anti-tumor and Anti-inflammatory Effects of Vitamin D3 in Endometrioma. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 19) Nikoo Sh, Ebtekar M, Jeddi-Tehrani M, **Zarnani A.H**. Immunological evaluation of menstrual blood stromal stem cells in endometriosis patients: role of IDO and cytokines. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 20) Arash Mohazzab, Farzaneh Sadat Khezri, Elham Akbari, Mohammad-mehdi Akhondi, Kourosh Kamali, **Amir-Hasan Zarnani**, Adel Shervin. Second Look Laparoscopy Findings in Patients with Endometriosis. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 21) Elham Akbari, Mina Aminlou, Kadijeh Shadjou, Abolfazl Ghoojani, Arash Mohazzab, Amir-Hasan Zarnani, Mohammad-mehdi Akhondi, Adel Shervin. Symptomatology, Diagnosis and Treatment of Endometrioma in a Referral Endometriosis Clinic in Iran from 2006 to 2011. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 22) Delbandi A.A, **Zarnani A.H**, Shervin A, Akbari E, Jeddi-Tehrani M, Sankian M, Mahmoudi M. The Study of Th17 and Treg Cell Populations in Endometriotic vs. Non-Endometriotic Patients. *2nd National Congress on Endometriosis (Oral Presentation)*.
- 23) Shirshahi V, Shamsipour F, **Zarnani AH**, Verdi J, Vafaei S, Farid S, Saber R. Using functionalized ORMOSIL (organically modified silica) nanoparticles for breast cancer cells targeting in vitro. *The 17th National And 5th International Iranian Biology Conference. Shahid bahonar University Of Kerman. 4-6 September 2012. (Poster Presentation)*.

- 24) Azedi Tehrani F, Kazemnejad, **Zarnani AH**, Behzadi J, Akhondi MM. Derivation of neurospheres from human menstrual blood stem cells: in comparison with human bone marrow mesenchymal stem cells. *Basic and Clinical NEUROSCIENCE CONGRESS 2012, Tehran, Iran, Razi Convention Center, 7-9 Nov 2012 (Poster Presentation)*.
- 25) H.Naeimi, **A.H.Zarnani**, R. Ghahremanzadeh, Z. Rashid. An Efficient One-Pot multicomponent synthesis of Novel spirooxindoles using  $\text{CuFe}_2\text{O}_4$  as a reusable nanocatalyst. *1<sup>st</sup> National Conference on Multi-Component Reactions. 30,31 May 2012, Kerman (Iran). (Poster presentation)*.
- 26) G. Imani Shakibaei, A. Bazgir, R. Ghahremanzadeh, **A. H. Zarnani**, M. M. Akhondi, Synthesis of novel 2-(3-(dicyanomethyl)-2-oxoindolin-3-ylthio)acetic acid derivatives in water at presence of nanomagnetic catalyst. *19<sup>th</sup> Iranian Seminar on Organic Chemistry Vali-e-Asr University of Rafsanjan, 5 -7 Sep. 2012. (Poster presentation)*.
- 27) H. Naeimi, R. Ghahremanzadeh, **A. H. Zarnani**, Z. Rashid. Highly active magnetically separable  $\text{CuFe}_2\text{O}_4$  nanoparticles: an efficient catalyst for the synthesis of novel spirooxindoles. *19<sup>th</sup> Iranian Seminar on Organic Chemistry Vali-e-Asr University of Rafsanjan, 5 -7 Sep. 2012. (Poster presentation)*.
- 28) Fatemi R, Vahedian Z, Mirzadegan E, **Zarnani A.H**, Jeddi-Tehrani M, Idali F. 17- $\beta$  Oestradiol Induces the Generation of Regulatory T Cells from Naïve  $\text{CD}_4^+$  T Cells. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation)*.
- 29) Ghaemimanesh F, Babaei S, Shaban E, **Zarnani A.H**, Jeddi-Tehrani M, Rabbani H. Anti Sortilin Antibody Induces Apoptosis in Ovarian Cancer Cell Lines. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation)*.
- 30) Eftekharian M.M, **Zarnani A.H**, Khademi Y, Moazeni S.M. Calcitriol-Treated Dendritic Cells: Phenotypic and Functional properties and Their Effects on EAE. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation)*.
- 31) Hosseini S, Zarnani A.H, Asgarian-Omran H, Yousefi M, Vahedian Z, Arefi S, Eshraghian M.R, Jeddi-Tehrani M, Shokri F. Comparative Immunophenotypic Profiles of Menstrual and Peripheral Blood Leukocytes In Fertile Women. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation)*.
- 32) Rashidi N, Mirahmadian M, Jeddi-Tehrani M, Rezaia S, Ghasemi J, Bahmanpour M, **Zarnani A.H**. Effects of LPS and LTA in production of Inflammatory cytokines

- and Expression of TLR2, TLR4 & MyD88 by human endometrial cells. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 33) Vojgani Y, Zarei S, Tavangar B, Bayat A.A, Hadavi R, Vahedian Z, Mahmoudi A.H, Mirzadegan E, **Zarnani A.H**, Jeddi-Tehrani M. Evaluation of Human Leptin Expression in a liposarcoma Cell Line By Anti Leptin Monoclonal Antibody. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 34) Zarei S, Tavangar B, **Zarnani A.H**, Zeraati H, Kheirkhah T, Ferydonfar A.A, Pourheidari F, Nasernia J, Jeddi-Tehrani M, Shokri F. Immunogenicity of a local MMR Vaccine in 1-1.5 Year Old Iranian Children, a Prospective Study. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 35) Mojtavavi N, Karami Golbaghi M, Zarnani A.H, Sadeghipour A.R, Salekmoghadam A.R. Investigation the Effect of Breast Cancer Cell Line in a Mouse Model of Allergic Asthma. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation).*
- 36) Rajaei S, **Zarnani A.H**, Jeddi-Tehrani M, Tavakoli M, Mohammadzadeh A, Dabbagh A, Mirahmadian M. Is the Endometrial Cytokine Profile of Women With Repeated Implantation failure Similar to Fertile Women. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 37) Bozorgmehr M, Moazzeni S.M, Sheikhan A, Salehnia M, Ranjbar R, Abbasi F, **Zarnani A.H**. Menstrual Blood Stromal Stem Cells Inhibit Generation of Dendritic Cells from Peripheral Blood Monocytes. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 38) Madjd Z, Mojtavavi N, Akbari M.E, **Zarnani A.H**. Overexpression of the BRCA2 Pathway Gene *EMSY* in Primary Breast Cancers; a Study Using Tissue Microarray. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation).*
- 39) Naghi Vishte M, Seyyed Tabaei S.J, Rabbani H, **Zarnani A.H**, Zarei O, Amini N, Haghghi A, Bayat A.A, Jeddi-Tehrani M. Production of Polyclonal Antibody against SAG1 (P30) Protein of *Toxoplasma gondii*. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation).*
- 40) Nikoo S, Ebtekar M, Jeddi-Tehrani M, Ghasemi J, **Zarnani A.H**. The modulatory Effect Of TCDD on Menstrual Blood Stromal Stem Cells. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation).*
- 41) Delbandi A.A, **Zarnani A.H**, Shervin A, Jeddi-Tehrani M, Sankian M, Mahmoudi M. The study of Relationship between Serum Cytokines and Th17 and Treg Cell

- Populations in Endometrial vs. Non-Endometrial Patients. *11th International Congress of immunology & Allergy. April 2012. (Poster presentation).*
- 42) Delbandi A.A, Mahmoudi M, Shervin A, Jeddi-Tehrani M, Sankian M, **Zarnani A.H.** The study of Anti-tumor and Immunomodulatory Activity of Vitamin D3 in Endometrioma. *11th International Congress of immunology & Allergy. April 2012. (Oral Presentation).*
- 43) **Amir Hassan Zarnani.** Immunological modes of recurrent miscarriage. *3rd International and 18th National Congress Of Iranian Society For reproductive Medicine. April 2012. (Oral Presentation).*
- 44) R. Alizadeh, J. Mahmoudian, E. Shaban, **A. H. Zarnani.** Application of Nano Biosensor Based on Gold Nanoparticle for Identification of Immunoglobulin G Protein in Western Blot Test. *4th International Conference on nanostructures. 12-14 March 2012, Kish Island, I.R. Iran. (Poster presentation).*
- 45) Maryam Hormozi., Saeed Talebi., **Amir Hassan Zarnani.**, Mahmood Jeddi-Tehrani., Ladan Hosseinigohari., Mohammad Mehdi Akhondi. Effect of 5'-(N-Ethylcarboxamido) adenosine (NECA) on expression of VEGF and angiopoietin in the human ovarian cortex after transplantation to nude mice. *12th Congress of Biochemistry & 4th International Congress of Biochemistry and molecular Biology, Mashhad. Iran, September 2011 (Oral presentation).*
- 46) Sayeh Khanjani., Hale Edalatkhah., Saeed Talebi., Amir hassan Zarnani., Manijeh Khanmohammadi., Mahsa Bakhtiari Sani., Somaieh Kazemnejad. Evaluation of hepatogenic differentiation potential of menstrual blood derived stem cells. *12th Congress of Biochemistry & 4th International Congress of Biochemistry and molecular Biology, Mashhad. Iran, September 2011 (Poster presentation).*
- 47) Hosein Abtahi., Mohammad Shabani., Behnam Jameie., **Amir Hassan Zarnani.**, Saeed Talebi., Niknam Lakpour., Haleh Edalatkhah., Mohammad Mahdi Akhondi., Mostafa Amiri., Mohammad Reza Sadeghi. Regulation of luteinizing hormone receptor in hippocampal neurons following different long-lasting treatments in castrated adult rat. *12th Congress of Biochemistry & 4th International Congress of Biochemistry and molecular Biology, Mashhad. Iran, September 2011 (Poster presentation).*
- 48) Mahmood bozorgmehr., Seyed Mohammad Moazeni., **Amir Hassan Zarnani.**, Ali Sheykhan., Mozhdeh Salehnia., Reza Ranjbar., Fatemeh Abbasi. Inhibitory Effects of Menstrual blood Stromal Stem Cells on Generation of Dendritic Cells from Peripheral Blood Monocytes. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Oral presentation).*

- 49) Shohreh Nikoo., **Amir Hassan Zarnani.**, Massoumeh Ebtekar., Mahmood Jeddi-Tehrani., Ebrahim Mirzadegan. Differential Expression Of CD9 and CD29 from Patients with Endometriosis. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Oral presentation).*
- 50) Samira rajaei., Mahroo Mirahmadian., Mahmood Jeddi-Tehrani., Maryam Tavakoli., Mojdeh Zonoubi., Ali Dabbagh., **Amir Hassan Zarnani.** The immunomodulatory Effects of 1,25(OH)<sub>2</sub> Vitamin D<sub>3</sub> on Cytokine Production by Endometrial Cells of Women with Repeated Implantation Failure. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Oral presentation).*
- 51) Parisa Shahnazari., Saeed Zarei., Hodjatallah Rabbani., **Amir Hassan Zarnani.**, Hamid Reza Khoram Khorshid., Mahmood Jeddi-Tehrani. Prediction and Analysis of the Tertiary Structure of Human Sperm Protein Reactive With Anti-Sperm Antibody. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Oral presentation).*
- 52) Farah Idali., Saeed Zarei., **Amir Hassan Zarnani.**, Mohammad Reza Sadeghi., hamid Reza Khoram-Khorshid., Afsaneh Mohammad-Zadeh., Raheleh Torabi., Zohreh Akbarzadeh-Pasha., Mahmood Jeddi-Tehrani. Plasminogen Activator Inhibitor 1 and Methylene Tetrahydrofolate Reductase Gene Mutations in Iranian Women with polycystic Ovary Syndrome. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Poster presentation).*
- 53) Farhad Khosravi., Saeed Zarei., Elham Savadi., Negah Ahmadvand., **Amir Hassan Zarnani.**, Mohammad Mehdi Akhondi., Mahmood Jeddi-Tehrani. The Association of Plasminogen Activator inhibitor Type1 Mutation with Recurrent Pregnancy Loss. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Poster presentation).*
- 54) Ebrahim Mirzadegan., Reza Hadavi., Zohreh Vahedian., Ali Ahmad Bayat., Ahmad Reza Mahmoodi., banafsheh Tavangar., Yasaman Vojgani., Saeed Zarei., **Amir Hassan Zarnani.**, Mahmood Jeddi-Tehrani. Analysis of Human Leptin Expression in Human Placental Choriocarcinoma Cell Line. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Poster presentation).*
- 55) Raheleh Torabi., Mahmood Jeddi-Tehrani., Afsaneh mohammadzadeh., Soheila Arefi., Mohammad Keramatipour., Hodjatallah Zeraati., **Amir Hassan Zarnani.**, Mohammad Mehdi Akhondi., jafar Mahmoudian., ahmad Reza Mahmoudi., Saeed Zarei. Combination of Thrombophilic Gene Mutations Can Increase the Recurrent Pregnancy Loss. *9<sup>th</sup> International Congress on Obstetrics and Gynecology / November.2011, Tehran.Iran (Poster presentation).*



- 56) 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. *4<sup>th</sup> Yazd International Congress and Student Award in Reproductive Medicine* 15-17 April 2011 Yazd, Iran **(Poster Presentation)**.
- 57) Hormozi M, Soltanghoraei H, **Zarnani AH**, Jeddi-tehrani M, Hosseinigohari L, Talebi S, Khoramakhorsid H, Kamali K, Jafarabadi M, Akhondi M. The effect of 5'-(N-Ethylcarboxamido) adenosine (NECA) on angiogenesis in transplanted human ovarian tissue. *4<sup>th</sup> Yazd International Congress and Student Award in Reproductive Medicine* 15-17 April 2011 Yazd, Iran **(Poster Presentation)**.
- 58) **A.H. Zarnani**. Immunology of infertility and abortion, 12<sup>th</sup> congress of gynecology and obstetrics, Tehran, 2010 **(Oral presentation)**.
- 59) F. Mohamadi, **AH. Zarnani**. Biological application of titanium dioxide photocatalysis. *International Congress on Nanoscience and Nanotechnology* 9-11 November 2010 Shiraz-Iran. **(Poster Presentation)**.
- 60) 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 on A Nanofibrous Scaffold. *6<sup>th</sup> Congress On Stem Cell Biology & Technology, 15-17 September 2010, Royan Institute Tehran Iran.* **(Poster Presentation)**.
- 61) M Karami Gholbaghi, AR Sadeghipour, **AH Zarnani**, AR Salek Moghadam, N Mojtavavi. 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)**
- 62) S Rezaia, **AH Zarnani**, A Mozaffari, H Rabbani, M Mosallaei, L Katuoziyan, N Rashidi. Differential Expression of Toll-Like Receptor (TLR) Families by Cell Lines of Diverse Origins. *10<sup>th</sup> International Congress of Immunology & Allergy of Iran May 18-20, 2010. Tehran.***(Oral presentation)**
- 63) 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)**
- 64) 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)**
- 65) 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)**

- 66) 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)*
- 67) 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)*
- 68) 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)*
- 69) 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)*
- 70) 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)*
- 71) 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)*
- 72) 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)*
- 73) 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)*

- 74) 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)*
- 75) 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)*
- 76) **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)*
- 77) 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)*
- 78) 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)*
- 79) **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)*
- 80) Shahbazi M., Jeddi-Tehrani M., **Zarnani A.H.**, Salek-Moghaddam A., Karimi F., Ghasemi J., Kazemi-Sefat Gh., Moravvej A., Rezanian 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)*
- 81) Shahbazi M., Salek-Moghaddam A., **Zarnani A.H.**, Jeddi-Tehrani M., Karimi. F, Ghasemi J., Kazemi-Sefat Gh., Moravvej A., Rezanian 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)*
- 82) 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)*

- 83) 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)*
- 84) Moravvej A., **Zarnani A.H.**, Jeddi-Tehrani M., Salek-Moghaddam A., Shekarabi M., Ghods R., Kazemi-Sefat Gh., Ghasemi J., Shahbazi M., Rezania 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)*
- 85) Moravvej A., **Zarnani A.H.**, Jeddi-Tehrani M., Salek-Moghaddam A., Shekarabi M., Ghods R., Kazemi-Sefat Gh., Ghasemi J., Shahbazi M. Rezania 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)*
- 86) 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)*
- 87) Eftekharian M., Kamal Sarvestani E., **Zarnani A.H.**, Moazzeni S.M., Effect of calcitriol 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)*
- 88) **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)*
- 89) 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)*
- 90) 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)*
- 91) 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)*

- 92) **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)*
- 93) 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)*
- 94) 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)*
- 95) 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)*
- 96) 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)*
- 97) **Zarnani A.H.** Antigen presenting cell at the feto-maternal interface (**as main lecturer**). *8<sup>th</sup> Iranian congress of immunology and allergy, Tehran, 16-18 July 2006 (oral presentation)*
- 98) **Zarnani A.H.**, Immunomodulation and Blood Transfusion, *Seminars on Blood Transfusion Medicine, Zanjan, 30 Nov 2006 (As main Lecturer)*
- 99) **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)*
- 100) 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)*
- 101) **Zarnani AH.** Vitamine D and immunoregulation. *scientific meeting of Avicenna reseach center , 2005 (oral presentation)*
- 102) **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)*
- 103) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeedi-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)*
- 104) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeedi-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)*
- 105) 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)*
- 106) 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)*
- 107) Dokouhaki P., Moghaddam R., Akbari-Asbagh F., Ghasemi J., **Zarnani A.H.**, Shokri F., Razavi SA., Jeedi 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)*
- 108) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Vazirian F., Dokouhaki P., Jeedi-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)*
- 109) **Zarnani AH.** Moazzeni SM., Shokri F., Salehnia M., Bayat AA., Mahmoodi SAR., Heidari M., Dokouhaki P., Jeedi-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(poster presentation)*
- 110) 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)*
- 111) Bayat AA., Ghods R., Behjati R., Saboor AA., **Zarnani AH.**, Jeedi Tehrani M., Production and characterization of a monoclonal antibody against ferritin, *The 3rd national congress of biotechnology, Mashhad, 1382 (oral presentation)*
- 112) Heidari M., Mahmoodi SAR., Torkabadi E.M., Ghods R., Bayat AA., **Zarnani AH.**, Jeedi 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**)
- 113) 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**)
- 114) 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**)
- 115) **Zarnani AH.** The role of Indoleamine 2,3 Dioxygenase in immunological tolerance to fetus, *scientific meeting of Avicenna Research Center, 2003*(**oral presentation**)
- 116) **Zarnani AH.** Th1/Th2 cytokine pattern of feto-maternal interface, *scientific meeting of Avicenna research center , 2003* (**oral presentation**)
- 117) **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**)
- 118) 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**)
- 119) 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**)
- 120) 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**)
- 121) 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**)

- 122) **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)*
- 123) **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)*
- 124) **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)*
- 125) **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)*
- 126) **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) Sarah Maid Jabbari, Zohreh Mohammadi, **Amir H. Zamani.** DESIGN AND SYNTHESIS OF TEMPERATURE-SENSITIVE BIO-HYDROGEL COATED SIO<sub>2</sub>-AU NANO CORE-SHELL FOR PHOTO THERMAL THERAPY OF CANCER CELLS. *World Congress Advanced Materials, Izmir, Turkey. 16-19 September 2013. (Oral Presentation).*
- 2) Sarah Majd Jabbari, **Amir H. Zarnani,** Hamid R. Barghi. SYNTHESIS OF A CHITOSAN NANO-HYDROGEL BASED MATRIX FOR CONTROLLED RELEASE OF METHYLPREDNISOLONE ACETATE. *World Congress Advanced Materials, Izmir, Turkey. 16-19 September 2013. (Poster Presentation).*
- 3) Forough TORABI, Elham SAFARPOOR, Niknam LAKPOUR, Mohammad Mehdi AKHONDI, Nazila AMINI, **Amir Hassan ZARNANI,** Hamed HEIDARI VALA, Mohammad Reza SADEGHI. Production and characterization of polyclonal antibody against fibronectin for its detection on the surface of human spermatozoa. *Molecular Immunology & Immunogenetics Congress, 2012 (Poster Presentation).*
- 4) S Zarei, A H Zarnani, H Zeraati, N Mohammadinia, O Rastani, F Sardari, B Tavangar, Y Vojgani, M Jeddi-Tehrani, F Shokri. *Immunogenicity to measles, mumps and rubella in Iranian infants with local MMR vaccine. 24th International congress of pediatrics & 10th National congress of pediatric Nuersing, October 11-15, 2012 (Oral Presentation).*



- 5) S.Zarei, R.Torabi, H.Zeraati, **A.H. Zarnani**, M.M. akhondi, R.Hadavi, E.Savadi-Shirazi. Which thrombophilic gene mutations are important to increase the risk of recurrent pregnancy loss? *Eshre (European Society of Human Reproduction & Embryology) Istanbul, Turkey (Poster Presentation)*.
- 6) Khanjani Sayeh, Kazemnejad Somaieh, Khanmohammadi Manijeh, Sani Bakhtiary Mahsar, Torabi Foroughr, Amini Nazila, **Zarnani Amir Hassan**, Hayati Roudbari Nasima. EVALUATION OF HEPATOGENIC DIFFERENTIATION POTENTIAL OF MENSTRUAL BLOOD DERIVED STEM CELLS. *10th Annual Meeting International Society for Stem cell Research (ISSCR) Yokohama, Japan. 13-16 Jun 2012. (Poster Presentation)*.
- 7) **A.H. Zarnani**, N. Rashidi, M. Mirahmadian, M. Jeddi-Tehrani, S. Rezania, A. Kalantari . Vitamin D3 inhibits inflammatory cascade in endometrial cells through down regulation of TLR signaling. *Joint International Congress of the American Society for Reproductive Immunology (ASRI) & the European Society for Reproductive Immunology (ESRI), Hamburg, Germany. 31 May – 2 Jun 2012. (Poster Presentation)*.
- 8) Zarei S., Jeddi-Tehrani M., Zarnani A.H., Zeraati H., Ferydonfar A.A., Pourheidari F., Nasernia J., Tavangar B., Vojgani Y., Shokri F. Immunogenicity of A Booster MMR Vaccine in Iranian Pre-School Children, Five Years After Primary Vaccination. *5<sup>th</sup> congress of the Federation of Immunological Societies of Asia Oceania March 2012/14-17 New Dehli, India. (Poster Presentatoin)*.
- 9) m.Heidari, m.Farahpour, s.Talebi, h.Edalatkhah, **A.H Zarnani**, A.M Ardekani. Estradiol-Induced differential GnRH gene expression in mouse uterus. *27<sup>th</sup> annual meeting of ESHRE, Stockholm. Sweden (Poster Presentation)*.
- 10) M. Mahmoudi, F. Siassi, M. J. Mahmoudi, F. Shokri, M. Eshraghian, **A.H Zarnani**, N. Rezaei, A. Saboor-Yaraghi1, In vitro Effect of oxLDL and PHA on Lymphocyte Proliferation/Cytotoxicity and Interleukin-2 Production in Patients with Atherosclerosis. *AMERICAN ACADEMY OF ALLERGY, ASTHMA & IMMUNOLOGY, 2011 San Francisco. (Poster Presentatoin)*.
- 11) Khanmohammadi. M., Kazemnejad. S., Darzi. S., Khanjani. S., **zarnani. A.**, Akhondi. MM. Expression profiling and differentiation potential of menstrual derived stem cells compared with stem cells derived from human marrow. *27th Annual Meeting of the European Society of Human Reproduction & Embryology July 2011 3-6 Stockholm, Sweden. (Poster Presentatoin)*.
- 12) M.Khanmohammadi, S.kazemnejad, S. darzi, S. Khanjani, **A.H Zarnani**, M.M Akhondi. Express ion profiling and differentiation potential of menstrual blood derived

stem cells compared with stem cells derived from human bone marrow. *27th Annual Meeting of the European Society of Human Reproduction & Embryology* (July 2011 3-6 (Stockholm, Sweden. (**Poster Presentatoin**).

- 13) **Zarnani A.H**, Torabi-Rahvar M, Bozorgmehr M. Potentiation of Anti-Tumor Dendritic Cell-based Vaccines by Harnessing The Helper Effect Of Carrier Proteins. Österreichische Gesellschaft fÜr Allergologie und Immunologie, Austria, 2011 (**Oral Presentation**).
- 14) 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. *4th International Congress of Molecular Medicine* (June 2011 27-30 (Istanbul, Turkey (**Poster Presentation** )
- 15) 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. *4th International Congress of Molecular Medicine* (June 2011 27-30 (Istanbul, Turkey (**Poster Presentation** )
- 16) 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** )
- 17) 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** )
- 18) 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*

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- 19) Saideh Darzi, Somaieh Kazemneiad, Mahmood Jeddi-Tehrani, Kobra Entezami, 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)*
- 20) 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)*
- 21) 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)*
- 22) 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)*
- 23) 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)*
- 24) 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)*
- 25) 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)*
- 26) 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)*

- 27) 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)*
- 28) 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)*
- 29) M. Torabi Rahvar, **A. H. Zarnani**, H. Rabbani, E. Torkabadi, N. Mojtabavi, 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)*
- 30) 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)*
- 31) 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)*
- 32) 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)*
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- 4) **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
- 5) **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 researcher in basic science in the 18<sup>th</sup> Razi Research Festival of Medical Sciences, 2012
- 2) Selected as the distinguished researcher by the Iran mystery of science, research and technology, 2009
- 3) Royan international research award, Best research project in female fertility field. 2007, dedicated to my supervisor, Prof. Moazzeni
- 4) Selected as first rank Ph.D student in basic sciences by the 12<sup>th</sup> Razi Research Festival of Medical Sciences, 2007
- 5) Selected as distinguished doctor of medical laboratory sciences by Iranian council of medicine. 2005
- 6) FOCIS award, 12<sup>th</sup> international congress of immunology, Montreal, Canada, 18-23 July 2004
- 7) ICI award, 12<sup>th</sup> international congress of immunology, Montreal, Canada, 18-23 July 2004
- 8) Winner of the 10<sup>th</sup> Iranian student year book award, 2003