

# ABBAS REZAEI

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Department of Immunology,  
Faculty of Medicine, Isfahan  
University of Medical  
Sciences, Isfahan, Iran.  
Postal code: 81744-176

## EDUCATION

**PhD** St. Mary's Hospital Medical School, *London*  
*University*, England, Immunology, 1991-1995

**MSc.** Isfahan University; Iran, Immunopathology, 1982-  
1987

**BSc.** Isfahan University; Iran, biology , 1978-1982

## **ACADEMIC APPOINTMENTS**

1995-1999 .....Assistant Professor  
1999-2005.....Associate Professor  
2005 –present.....Professor

## ***APPOINTMENTS***

HEAD OF IMMUNOLOGY DEPARTMENT: *1995 – 2009, 2014 - present*

Chancellor of Isfahan University of Medical Sciences 1997-2005

Vice Chancellor of Iranian Immunology and Allergy Society  
2012 - present

Scientific Secretary of 5<sup>th</sup> International Congress of  
Immunology and Allergy in Iran

Member of Iranian Board and peer-reviewer of Immunology  
examination, evaluation and programming 1997 - present

Iranian Society of Immunology and Allergy, Member 1997 –  
present; Vice President 2012 - present

Member of the editorial board of Iranian Journal of  
Immunology 2004 – present

Referee of Iranian National Science Foundation for approving  
immunology grant proposals

Member of European Society of Cancer Immunology

Member of the board of academic raise approval in  
Isfahan University of Medical Sciences 1997 – 2005, 2014 -  
present

## PUBLICATIONS

### BOOKS:

1. **A Guide to HIV** (1999) Dr. **A. Rezaei** (Translation from English Language to Persian)
2. **Basic Concepts in immunology**: a student's survival guide. 2001; **Dr .A. rezaei**, Dr. pesaran (Translation from English Language to Persian)
3. **Essentials of Clinical Immunology**, 4<sup>th</sup> ed. 2002; Dr. A. Andalib, **Dr. A. rezaei** (Translation from English Language to Persian)
4. **AIDS** (2004) **Dr.A.Rezaei**, Dr.Harandi, Dr.Gholabadi. (In Persian Language)
5. **Oncology**, 2004;Dr. **A. Rezaei** (Translation from English Language to Persian)
6. **HIV Handbook for Teenagers** (2007) (In Persian)
7. **A Survey on Organization and Function of Immune System** (2010) (In Persian)
8. **Basic immunology** (2013) **Dr.Rezaie** (author of chapter 32: reproductive immunology)

## Papers:

1. **An 80-KDa Syncytiotrophoblast Alloantigen Bound to Maternal Alloantibody in term placenta.** G.R.Jalali, A.Rezaei, J.L.Underwood, J.F.Movbray, S.H.Suridege, W.R.Allen, S.Matthias. American Journal of Reproductive Immunology 1995;33(3):213-20.
2. **Anomalous Inheritance of a Paternally Derived Trophoblast Antigen.** G.R.Jalali, A.Rezaei, J.L.Underwood, J.F.Movbray, W.R.Allen, S.Matthias. American Journal of Reproductive Immunology. 1996 Mar;35(3):245-51
3. **What is imprinting?.** M.H.Nassr, A.Rezaei, M.Sagha. Journal of Isfahan Medical School 1998;15(49) :6-1.
4. **Comparison of serum IgA in phenytoin user patients and normal individuals.** A.Rezaei, Z.Pesaran, A.H.Siadat, F.Ghiasi. Research in Medical Science. 1998;3(2).
5. **Immunotherapy for women with Recurrent Spontaneous Abortion for the First time in Isfahan.** March 21, 1998.
6. **Comparison of serum IgG in phenytoin user patients and normal individuals.** Abbas rezaei - zohre pesaran - shahriyar dadkhah - amir hosein siyadat.1999
7. **survey of immunity of hepatitis B vaccine in students of Isfahan medical faculty.** Research in Medical Sciences. 1999;Dr.A.Rezaei, Dr.S.A.Vaez

8. **Detection and isolation of MCP(CD46)protein in human seminal plasma.** H.Bahramian, M.H.nass, A.Rezaei, M.Hashemitabar, F.Oreizi.Yakhteh. 2000;2(7):125-130
9. **The central effect of Biological Amines on immunosuppressive Effect of Restraint Stress in RAT.** F.Zeraati, T.GHafghazi, M.Adib, A.Rezaei. Act media iranica. 2000;38(3).
10. **Continuing Medical Education(CME): A Basis for Quality Improvement Of Health Services.** Yousefy A; Rezaei A. Iranian Journal Of Med. Education 2000 1 (1) : 14-18.
11. **Common allergens for allergic patients in Isfahan Research in Medical Sciences.** H.Akbari, A.Rezaei. Journal of Research in Medical Sciences. 2000;5(1):8-12.
12. **Floctometry Using for the First Time in Isfahan in Order to Distinguish Different Markers Located on Peripheral Blood Cells .** March 21, 2001.
13. **Comparison of CD59 concentration of seminal plasma of fertile and infertile men.** M.Hashemitabar, A.Rezaei, M.H.nassr, H.Bahramian, F.Oreizi.Yakhteh. 2001;2(8):185-190 .
14. **Evaluation of the relationship between hypertension and C3 in serum.** A.Rezaei, Z.Pesaran, SH.Mazaheri tehrani, A.H.Siadat. Feiz. Feyz Journals of Kashan University of Medical Sciences. 2001;5(1).
15. **Maternal Immunoglobulin on Equine Placenta.** Susanna Mathias, W.R.Allen, A.rezaei, G.R.Jalali, Jennifer Underwood, J.F.Mowbray. Biolreprodmono. 2001; 201-207.

16. **THE VALUE OF IMMUNOLOGICAL TESTS IN PREDICTING PREGNANCY OUTCOME.**  
A.Rezaei. Medical Journal of the Islamic Republic of Iran. VOL 2NO 12 309-312( 2001);
17. **Effect of human follicular fluid on implantation of mouse embryo.** Rezaei, nasr esfahani M.H, mardani, yousefian, khosravi. Medical journal of reproduction& infertility. 2002;3(9):13-21.
18. **T-helper 1 cytokines increase during early pregnancy in women with a history of recurrent spontaneous abortion.** Abbas rezaei, Ali Dabbagh. Med Sci Monit,2002;8(8):cr607-610.
19. **Streptokinase efficacy in myocardial infarction management: is it related to serum antistreptokinase antibody titer.** H.Shemirani, A.Rezaei, S.Matinkhah, F.Oreizi. Research in Medical Sciences. 2002;5(2):162-165.
20. **Leukemia markers expression of peripheral blood vs. bone marrow blasts using flow cytometry.** MEDICAL SCIENCE Monitoring. . Abbas Rezaei, M.Adib, F.Mokarian, M.Tebianian, R.Nassiri. 2003;9(8):359-362.
21. **Evaluation of breast cancer risk factors for using in hormone replacement therapy of corticosteroid treated postmenopausal women.** Dr.Z.Pessaran, Dr.A.Rezaei, Dr.R.Tavakolinia, Dr.A.H.Siadat. Journal of Shahrekord Medical School. 2003;5(2):70-75.
22. **A comparison of IL-2 in normal and symptomatic pulps.** Moosavi, A.Rezaei, shekaramiz. Medical Journal of the Islamic Republic of Iran. 2003;17:137-140.

23. **comparison of CD46 expression on the inner acrosomal membrane of sperms from normospermic and asthenospermic individuals.** Nasr Esfahani, Abbas Rezaei, H.Bahramian, M.Hashemitabar. Research in Medical Science. 2003;8:63-66. M.H.
24. **Correlation between in vitro fertilization with the level of antisperm plasma measured by flow cytometry.** A.Rezaei, M.H.Nassr, M.Adib, F.Shahsavari, F.Oreizi. J Reprod Infertil. 2003; 35-43.
25. **Investigation of the association between Psoriasis and oral Candida Albicans.** A.Rezaei, Z.Sahmoradi, A.H.Siadat, A.Asilian. Journal of Arak University of Medical Sciences, Rahavard Danesh. 2004;7(1):34-38.
26. **ANOTHER CASE OF PARA-BOMBAY PHENOTYPE IN AN IRANIAN DONOR.** REZAEI Al. POURAZAR1, SR JOSHI 2, VA CLARKE. Archives of Iranian medicine. 2004;7(4):284-6.
27. **HLA-DR typing by PCR-SSP and compared to serological typing.** M.Adib, M.Yaran, A.Rezaei, GH.Solgi.Yakhteh. 2004;6(21):7-11.
28. **Autoimmune hemolytic anemia in a patients who's serum react with all ABO blood groups.** A.Pourazar, A.Rezaie, SR.Joshi. Journal of Research in Medical Sciences. 2004; 6:308-311

29. **Pretreatment plasminogen activator inhibitor-1 (PAI-1) level in the failure of streptokinase therapy in acute myocardial infarction.** H.Shemirani, M.Tajmirriahi, A.Rezaei, F.oreisi. Journal of Research in Medical Sciences. 2004;9(4):20-26.
30. **The effect of antisperm antibodies measured by direct mixed agglutination reaction on in vitro fertilization rate.** . Shahsavari F, Rezaei A, Nasr-Esfahani MH, Kheirollahi A, Farhadi A.Yafteh. 2004;6(20):51-57
31. **The need for having more dynamic health and treatment centers: some executive proposal.** A.Rezaie, M.Mehdizadeh, GH.Sadri. Teb& Tazkieh (Persian Language) 10-16 ;2004;(54).
32. **Auto-immune hemolytic anemia in a patient whose serum react with all ABO blood Groups.** A.Pourazar, A.Rezaie, SR.Joshi. Journal of Research in Medical Sciences. 2004;6:59-62.
33. **Apoptosis and Fas ligand in peripheral blood mononuclear cells in multiple sclerosis.** A.Rezaie, A.Kiani ,F.Oreizi, Z.Pesaran, M.Etemadifar, R.Nassiri. Electronic journal of pathology and histology. : vol 10.1041-001 ,2-9(2005).
34. **The assessment of NK cytotoxicity and CD56+/CD16+ phenotype by flow-cytometry in PBL isolated from women with recurrent spontaneous abortion.** A.Andalib, A.Rezaei, F.Oreizi, S.Balochi. Iranian Journal of Immunology. 2005;2(4):213.



35. **Anti-streptokinase antibody detection before and immediately after streptokinase therapy in patients with myocardial infraction.** Dr.H.Shemirani, Dr.A.Rezaei. Iranian Journal of Immunology. 2006;3(2):66.
36. **A study on stress, depression and NK cytotoxic potential in women with recurrent spontaneous abortion.** Dr.A.Andalib, Dr.A.Rezaei, Dr.F.Oreizy, Dr.K.Shafiei, Dr.S.Baluchi. Iranian Journal of Allergy Asthma Immunology. 2006;5(1):9-16..
37. **A Study of Tissue Bcl-2 Expression and Its Serum Level in Breast Cancer Patients.** A.Andalib, R.Skokohi, A.Rezaei, M.Mokhtari, M.Mohajeri, G. Mohajeri. S. Babazadeh. Gastric & Breast Cancer 2006;6(3): 76-83.
38. **Quantitative Assessment of sICAM-1 and CEA in Sera of Gastrointestinal Cancer Patients Before and After Operation.** Danesvar Journal(in Persian)62 ; 51-56,2006. A.Andalib;J. Hashminia,H. Gasemian, S.Babazadeh, F.Orazi, F.Sahebfosol, A.Rezaei.
39. **Evaluation of the Antibody IgG Against Rubella in The Healthy Female Medical Students of Isfahan Medical School.** Pesaran Z., Rezaei A., Mazaheri S., Siadat A. Journal of Cell and Tissue Research Vol. 7(1) 1-3 (2007).
40. **Assessment of Antistreptokinase Antibody as a Risk Factor in Predicting Acute Myocardial Infarction.** REZAIE A\*, SHEMIRANI. Journal of cell and Tissue Research Vol. 7 (2) 1097 – 1100(2007).

41. **Designing a non-virulent HIV-1 strain: Potential implication for vaccine and experimental research.** Abbas Rezaei, Rezvan Zabihollahi, Mansoor Salehi, Sharareh Mogim, Hassan Tamizifar. Journal of Research in Medical Science, Sep & Oct.2007; vol12,no.5.
42. **Streptokinase Efficacy In patients with Acute Myocardial Infraction with low Level Antistreptokinase Antibody And High level LP (a) lipoprotein.** H . Shemirani MD, A Rezaei PHD, F.Abbasian MD. IRANIAN HEART JOURNAL (IHJ); SPRING 2008; 9(1);34-39
43. **The assessment of feto-maternal hemorrhage in an artificial model using anti-D and anti-fetal hemoglobin antibody by flow cytometry.**
44. **Early measurement of Thrombus precursor protein (TpP) in the third trimester as a predictor of preeclampsia.** Mehrabian f, Rezaei Abbas. Journal of cell and tissue research. 2009;9(2):1855-1858 ISSN: 0973-0028.
45. **Alterations in the serum levels of chemokine 20 years after sulfur mustard exposure: sardasht-iran cohort study.** T.Ghazanfari, R.Yaraee, A.Kariminia, M.Ebtekar, S.Faghihzadeh, M.R.Vaez-Mahdavi, **A.Rezaei**, M.Vojgani, M.R.Soroush, A.Kermani-Jalilvand, P.Mohammadi, A.Foroutan, Z.M. Hassan. International immunopharmacology.2791 :9;9002 .91:1

46. **Alterations in serum levels of inflammatory cytokines (TNF, IL-1alpha, IL-1beta and IL-1Ra) 20 years after sulfur mustard exposure: Sardasht-Iran cohort study.** Roya Yaraee, Tooba Ghazanfaria, Massoumeh Ebtekar, Sussan K. Ardestanid, Abbas Rezaei, Amina Kariminiaf, Soghra Faghihzadeh, Ali Mostafaieh, Mohammad R. Vaez-Mahdavi. *International Immunopharmacology*. 2011;11(11):9002.
47. **The Expression of Th1- and Th2-Related Chemokine Receptors in Women with Recurrent Miscarriage: the Impact of Lymphocyte Immunotherapy.** Kheshtchin N, Gharagozloo M, Andalib A, Ghahiri A, Maracy MR, Rezaei A. *American Journal of Reproductive Immunology*. 2011;17(9):9090.
48. **Expression of an innate immune element (mouse hepcidin-1) in baculovirus expression system and the comparison of its function with synthetic human hepcidin-25.** Yazdani Y, Sadeghi H, Alimohammadian M, Andalib A, Moazen F, Rezaei A. *Iranian Journal of Pharmaceutical Research*. 2011;10(3):559-68.
49. **Optimization of human Th17 cell differentiation in vitro: evaluating different polarizing factors.** Mazdak Ganjalikhani Hakemi & Kamran Ghaedi & Alireza Andalib & Mohsen Hosseini & Abbas Rezaei. *In Vitro Cellular & Developmental Biology-Animal*. 2011;47(8):581-92.
50. **CCR3, CCR4, CCR5, and CXCR3 expression in peripheral blood CD4+ lymphocytes in gastric cancer patients.**
- Andalib A, Doulabi H, Maracy MR, Rezaei A, Hasheminia SJ

51. **In vitro Selective Depletion of CD4<sup>+</sup>CD25<sup>+</sup> Regulatory T Cells from PBMCs , using Anti-tac-SAP.** Akbar Akbari, Mansour Salehi\*\*, Alireza Andalib\* Abbas Rezaei\*. Journal of Immunotoxicology. 2012;9(4):368-73.
52. **CD4<sup>+</sup> Foxp3<sup>+</sup> Treg and its ICOS<sup>+</sup> Subsets in Patients with Myocardial Infarction.** Gazar SG, Andalib A, Hashemi M, Rezaei A. Iran J Immunol. 2012;9(1):53.
53. **Silymarin inhibits cell cycle progression and mTOR activity in activated human T cells: therapeutic implications for autoimmune diseases.** Gharagozloo M, Javid EN, Rezaei A, Mousavizadeh K. Basic & clinical pharmacology & toxicology. 2013;112(4):251-6. Epub 2012/11/06.
54. **CD4<sup>+</sup> Foxp3<sup>+</sup> Treg and its ICOS<sup>+</sup> Subsets in Patients with Myocardial Infarction.** Gazar SG, Andalib A, Hashemi M, Rezaei A. Iran J Immunol. 2012;9(1):53.
55. **Cell cycle analysis of the CD133(+) and CD133(-) cells isolated from human colorectal cancer.** Gharagozloo M, Mirzaei HR, Bagherpour B, Rezaei A, Kalantari H, Sanei MH, et al. Journal of cancer research and therapeutics. 2012;8(3):399-403. Epub 2012/11/24.
56. **In vitro selective depletion of CD4(+)-CD25(+) regulatory T-cells from PBMC using anti-tac-SAP.** Akbari A, Rezaei A. Journal of immunotoxicology. 2012;9(4):368-73. Epub 2012/04/18.
57. **Functional analyses of recombinant mouse hepcidin-1 in cell culture and animal model.** Yazdani Y, Keyhanvar N, Kalhor HR, Rezaei A. Biotechnology letters. 2013;35(8):1191-7. Epub 2013/04/05.

58. **RORC2 GENE SILENCING IN HUMAN TH17 CELLS BY SIRNA: DESIGN AND EVALUATION OF HIGHLY EFFICIENT SIRNA.** GANJALIKHANI HM, GHAEDI K, ANDALIB A, HOMAYOUNI V, HOSSEINI M, REZAEI A. AVICENNA JOURNAL OF MEDICAL BIOTECHNOLOGY (AJMB); JANUARY-MARCH 2013; 5(1 (16));10-19.
59. **AN AIS-INSPIRED ARCHITECTURE FOR ALERT CORRELATION.** Bateni M, Baraani A, Ghorbani A, Rezaei A. ICIC International. 2013; 3(1):231-55
60. **Association of serum immunoglobulins levels and eye injuries in sulfur mustard exposed: Sardasht-Iran Cohort Study.** Ghasemi H, Mostafaie A, Yaraee R, Hassan ZM, Rezaei A, Mahmoudi M, et al.. International immunopharmacology. 2013.
61. **Long term impact of sulfur mustard exposure on peripheral blood mononuclear subpopulations—Sardasht-Iran Cohort Study (SICS).** Ghazanfari T, Kariminia A, Yaraee R, Faghihzadeh S, Ardestani SK, Ebtekar M, et al. International immunopharmacology. 2013.
62. **Are serum levels of immunoglobulin classes and IgG subclasses involved in delayed pulmonary complications induced by sulfur mustard? Sardasht-Iran Cohort Study.** Ghazanfari T, Mostafaie A, Yaraee R, Pourfarzam S, Faghihzadeh S, Rezaei A, et al. International immunopharmacology. 2013.

63. **RORC2 Gene Silencing in Human Th17 Cells by siRNA: Design and Evaluation of Highly Efficient siRNA.** Hakemi MG, Ghaedi K, Andalib A, Homayouni V, Hosseini M, Rezaei A. *Avicenna journal of medical biotechnology*. 2013;5(1):10.
64. **Inhibitory Activity of *Avicennia marina*, a Medicinal Plant in Persian Folk Medicine, against HIV and HSV.** Namazi R, Zabihollahi R, Behbahani M, Rezaei A. *Iranian Journal of Pharmaceutical Research*. 2013.
65. **Effects of paraoxonase 1 activity and gene polymorphisms on long-term pulmonary complications of sulfur mustard-exposed veterans.** Taravati A, Ardestani SK, Ziaee A-A, Ghorbani A, Soroush M-R, Faghihzadeh S, et al. *International immunopharmacology*. 2013.
66. **Fibrinogen and inflammatory cytokines in spontaneous sputum of sulfur-mustard-exposed civilians—Sardasht-Iran Cohort Study.** Yaraee R, Hassan ZM, Pourfarzam S, Rezaei A, Faghihzadeh S, Ebtekar M, et al. *International immunopharmacology*. 2013.
67. **Immunosuppressive Effect of Silymarin on Mitogen-Activated Protein Kinase Signalling Pathway: the Impact on T Cell Proliferation and Cytokine Production.** Gharagozloo M, Jafari S, Esmaeil N, Javid EN, Bagherpour B, Rezaei A. *Basic & clinical pharmacology & toxicology*. 2013. Epub 2013/05/25.
68. **The variation of T-helper 17 (TH 17) and regulatory T (Treg) cell during the menstrual cycle in peripheral blood of woman with recurrent spontaneous abortion.** rezaie A. *international journal of fertility and sterility*. 2014;8(1).

69. **Positive and Negative Regulation of Th17 Cell Differentiation: Evaluating The Impact<sup>[1]</sup><sub>SEP</sub> of RORC2**  
Ganjalkhani Hakemi M, Ghaedi K, Homayouni V, Andalib A, Hosseini M, Rezaei A. Cell J. 2014; 16(3): 343-352.
70. **Dust events, pulmonary diseases and immune system**  
Nafiseh Esmail, Marjan Gharagozloo , Abbas Rezaei, Gabriele Grunig. Am J Clin Exp Immunol 2014;3(1):20-29
71. **Innate lymphoid cells and cytokines of the novel subtypes of helper T cells in asthma.** Roya Sherkat, Reza Yazdani, Mazdak Ganjalikhani Hakemi, Vida Homayouni, Rahim Farahani, Mohsen Hosseini, and Abbas Rezaei. Asia Pac Allergy 2014;4:212-221

### *Conference attendance and Speech (some Samples)*

1. Second Primary Health Care and Nutrition Project Launch Workshop. 2001; Iran 2-Result of an approved project in university.
2. Transfusion of lymphocytes (mostly B cells and monocytes) can treat Women With Recurrent Spontaneous ABORTION (RSA),But There is no Need To Do HLA Antigen Typing.
3. 38<sup>th</sup> Annual Conference of I.SH & B.T. 2001;
4. More NKcell Activity in Women With Recurrent Spontaneous ABORTION (RSA), Compared With normal pregnant Women.
5. Middle East Fertility Society. 1998;
6. The survey of primary immune deficiency in childhood Al-zahra medical center -isfahan.iran.
7. Immunological tests in predication of pregnancy outcome.
8. Middle East Fertility Society. 1997; Dubai  
XXXI Indian Society of Blood Transfusion& Immunohematology. (As a Guest Speaker)
9. International Oncology Conference
10. Recent Advance in Clinical Oncology,2007,Alain Emirates.



11. XVI regional congress on blood Transfusion ,  
November 12-15, 2005 Bangkok, Thailand.
12. Immuno 2007,13th international Congress of  
Immunology,21-25 Aug 2007 Rio.
13. Immune Mediated Diseases: From Theory To  
Therapy, Sep. 10-15 2007; Moscow ,Russia.
14. A New case of Para-Bombay phenotype in Iran  
,Isfahan 2007 Riadh, Saudi Arabia
15. All Iranian Immunology Congress as Speaker or  
chairman
16. Attend in all ISBT congress with paper from 1998-  
2007

***Supervision of  
Thesis and  
Dissertations  
(some Samples)***

***Around 75 theses; Just some examples:***

1. Evaluation of humoral immune system in under 6  
year children with otitis media. March 21, 2002 -  
September 23, 2002
2. Relation between class one of HLA antigen and  
psoriasis disease. March 21, 2002 - September 23,  
2002
3. The role of histamine receptors in restraint stress-  
induced immunosuppression in rat. March 21, 2001  
- January 1, 2002

4. Apoptosis and Fas ligand in peripheral blood mononuclear cells in multiple sclerosis
5. Comparison of CD59 concentration of seminal plasma of fertile and infertile men. March 20, 2000 - January 20, 2001
6. Evaluation of the relationship between hypertension and C3 in serum March 21, 1998 - April 21, 1998.
7. Evaluation of the Antibody IgG Against Rubella in The Healthy Female Medical Students of Isfahan Medical School.\_(2007)
8. *In vitro* Selective Depletion of CD4<sup>+</sup>CD25<sup>+</sup> Regulatory T Cells from PBMCs , using Anti-tac-SAP.(2009)
9. Expression of Th-1 and Th-2 associated chemokine receptors expression on peripheral blood lymphocytes of patients with multiple sclerosis before and after treatment with IFN- $\beta$ .2009
- 10.To investigate the ratio of TH17/Treg in peripheral blood of women with recurrent spontaneous abortion (RSA) and compare with non-pregnant normal women.2011
- 11.In vitro analysis of siRNA mediated silencing of RORC2 gene expression and its effect on IL-17 production by human Th17 cells.2011
- 12.Evolution of CD4 FOXP3 Treg and its icos subset on individuals with myocardial infarction(MI) and comparison with stable angina (SA) patient and control group.2011

13. Evaluation of CD4+foxp3+ Treg and CD8+foxp3+ Treg in individuals with Rheumatoid Arthritis and Breast cancer and comparison with normal individuals.2011
14. Analysis the effect of producing recombinant hepcidin on J774 A.1 and NS-1 cell line proliferation.
15. Serum and tissue CD87 and CD29 evaluation in lymphoma cells.2009
16. Comparison evaluation of infants fetal erythrocytes with hemolytic disease of new born (HDN) in maternal blood using tow flow cytometric methods.2005
17. The role oh human receptor in restraint stress – induced immunosuppression in rat.2001
18. Production of hepcidin : an element in innate immunity, using baculevirus expression system and its effect on proliferation of J774 A.1 and NS-1 cell line.2010
19. A study of catecholamine receptor  $\beta$ 2adrenergic receptor ) on T lymphocyte from patients with colorectal cancer
20. Assessment of therapeutic effects of IL-13/IL-17 A/F combined blockade on the pulmonary hypertension induced air pollution By :Nafiseh Esmaeel (ph.D)march 2014
21. Study of the effect 1a,25 dihydroxy-vitamin – D3 on TH17/Treg (CD4+,FOXP3)ratio in women with Recurrent Spontaneous Abortion and with vitamin D3 deficiency candidate for lymphocyte therapy

22. The evaluation of NKG2D and NKP44 expression of peripheral blood NK cells from patients with different stages and grades of colorectal cancer in comparison with normal subjects

## SKILL IMPROVEMENT

1. Quantitative RT-PCR at cellular and Molecular immunology techniques Training Prof. R.C.Rees, Nottingham University, UK.
2. Cell Culture and DNA extraction at the John van Geest Cancer research center Training Nottingham Trent University-Morgan Mathieu. Nottingham – England.
3. Immunotherapy for cancer patients at the Norwegian Radium hospital Training: Prof.Gustav Gaudernack. Oslo-Norway.
4. Histocompatibility and immunogenetics laboratory at the Anthony Nolan research institute, London, UK.
5. Flow cytometry at the BD company, Germany 2002

### ***TEACHING***

Teaching Immunology course to medical, dental and pharmacy students 1997 – present

Teaching Immunology course to Masters students 1999 – present

Teaching Immunology course to PhD students 2005 - present