

## Ahmad Zavarán Hosseini

Speciality: Immunology

Academic Status: professor

PhD: Immunology

MS: Immunology

BS/BA: medical Technology

Address:

Phone: 82883090

Fax: 88220144

Email: [zavarana@modares.ac.ir](mailto:zavarana@modares.ac.ir)



## PERSONAL INFORMATION :

Ahmad Zavarán Hosseini

Professor

Department of Immunology

e-mail: [zavarana@modares.ac.ir](mailto:zavarana@modares.ac.ir)

Date of Birth: 1958

Place of Birth: Najaf Abad, Esfahan, Iran

Marital Status: Married

Address: Department of immunology Tarbiat Modarres University.

P.O.Box. 14155-4838 Tehran, Islamic Republic of Iran.

Tel: +98 21 82883090,82883277,82884518

Fax: +98 21 88220144

## Degree Institution Field Date:

B.Sc Institute of Paramedical sciences,Tehran,Iran Technology of Laboratory Sciences 1983

M.Sc Tarbiat Modarres University ,Tehran,Iran Immunology 1987

Ph.D. Tarbiat Modarres University,Tehran,Iran Immunology 1993

## ACADEMIC EXPERIENCES

Instructor Tarbiat Modarres University, Tehran, Iran, (Since 1988)

Assistant & Associated Professor Tarbiat Modarres University, Tehran, Iran, (Since 1993)

Deputy of Research affair, shahed University

Member of Different committee of Tarbiat Modarres and shahed University

Head Department of Immunology

Head Librarian, Tarbiat Modares University, Iran

Chief Editor of Scientific and research journal of daneshvar (in Persian)

## MEMBERSHIP OF SCIENTIFIC SOCIETIES

Iranian Association of Immunology and Allergy  
Iranian Cell Death Association (ICDA) A Chapter  
of International Cell Death Society(ICDS)

## COURSES TAUGHT:

- 1- Basic Immunology
- 2- Laboratory of Immunology
- 3- Basic Immunology
- 4- Vaccination
- 5- Immunogenetics
- 6- Immunochemistry
- 7- HLA
- 8- Mucosal Immunity
- 9- Immunology of Infectious Diseases

## RESEARCH PUBLICATIONS

- 1) Zavaran Hosseini; A. Eslami; M. B. and Jalali; M, Purification and characterization of protein Antigens isolated from Mycobacterium Tuberculosis (H37 Rv strain) and their Effects on cell - mediated Immune Responses in Guinea Pigs, MJIRI, Vol. 10, No.4, 291- 297, 1997.
- 2) Farahyar. S, Zavaran Hosseini .A and Yadegari. M. H., Intracellular killing of C. albicans by Activated Macrophages of Balb/C Mice, Daneshvar, Vol. 3 Nol. 11 & 12, 27- 32, 1996. (Persian ,Abstract in English)
- 3) Zavaran Hosseini. A Torabfam. A and Rostaii, M. H., Effect of Attenuated Measles Virus Vaccine on Cell Mediated Immunity Following BCG Vaccination, Daneshvar, Vol. No. 15 & 16, 13- 22, 1997. (Persian ,Abstract in English)
- 4) Agholi. M., Zavaran Hosseini. A., DA; imi. A. H., Effect of Vitamin D3 & Interferon Gamma on Proliferation of Leis mania major & Nitric Oxide Production on Balb/c Mice Macrophages, Daneshvar, Vol. 5, No. 20, 45- 52, 1998. (Persian ,Abstract in English)
- 5) Zavaran Hosseini. A., Nikfargam. L and Poorfathellah. A. A., Nitric Oxide (No) Production by Balb/c Mice Macrophages Following BCG Vaccination, Daneshvar Vol. 6, No 23, 1999. (Persian ,Abstract in English)
- 6) RAZMJU, E, Zavaran. H. A, & Dalimiasl, A., Effect of supplemental arginine and citruline on nitric oxide production in Balb/c macrophages infected with leis

mania major. Kowsar Medical Journal, Vol 4, pp 259- 269, 1999. (Persian, Aabstract in English)

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8) Sattari. M., Rahimi. M. M., Zavarán. H. A. & Samimi. R. G. staphylococcus aureus Identification in Milk Products and Determination of Antibiotic Resistance, Modarres Medical Journal, Vol. 2, pp 63- 66, 1999. (Persian, Abstract in English)

9) GhaffariFar F., Dalimi Asl A., Zavarán H. A., Evaluation of □ group antigens in the diagnosis of human hydatidosis by ELISA, Pajouhesh & Sazandegi, No 45 pp: 83- 85, 1999. (Persian ,Abstract in English)

10) Paykari. H., Dalimi- Asl. A, Mousavi. T., ZAVaran Hoseini. A and Madani. R. Cellular Immune Responses in Sheep against Glutathione S - transferase of Fasciola gigantica. Arch. Razi Ins. 51, 2000.

11) Abdollahi SH, Mahmoodzadeh A,Zavarán Hosseini A & Dalimi Asl AH. , Acute Toxoplasmosis Following Re-infection with RH Strain in Mice with the Chronic for of the Disease ,KowsarMedical Journal.Vol 6(2), 14 ,2001. (Persian, Abstract in English)

12) Ghafari F,Dalimi Asl A & Zavarán Hosseini A A Simple Method for Preparation of HydatidCyst B-group Antigens,Modarres Journal of Medical Sciences,Vol 3(2),143,2001. (Persian, Abstract in English)

13) Chegeni R,Zavarán Hosseini A,Pourfathollah A.A,Vosough P,Evaluation of Nitric Oxide Production by Monocytes in Children with Acute Lymphoblastic Leukemia,ournal of BabolUniversity of Medical Sciences,Vol 3(1),2001. (Persian, Abstract in English)

14) Majidi J,Zavarán Hosseini A,Hassan ZM,Alimohamadian MH,Production of monoclonalantibody against human immunoglobulin E,Iranian Journal of Allergy, Asthma and Immunology, Vol 1, No.2, April 2000.

15- Yadegari M.H , Moazeni M. , Zavarán-Hosseini A. , Khosravi A., Extraction of Candida Albicans Cell Wall Mannoprotein ,Modarres Journal of Medical Sciences,VOL.4,NO.2,2002 (Persian ,Abstract in English)

16- Mohabati Mobarez A. , Zavarán Hosseini A. , etal, , The Effect of outer

Membrane protein on Murine Neutrophil Activity ٭ J.Daneshvar,VOL8,NO35,2001  
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Macrophages and Human Monocytes,Journal of Ilam of Medical  
University,VOL.9,NO.31,2002(Persian ,Abstract in English)

18- Aghai.A. , Zavarani Hosseini.A , Moazzeni.S.M. , Nitric Oxide production  
Following Vaccination with Killed M.tuberculosis and BCG, Scientific Journal of  
Qazvin University of Med Sci.NO 23,Autumn 2002 (Persian ,Abstract in English)

19- Daryani.A , Zavarani Hosseini.A , Dalimi.A , Immuno Responses Against  
Excreted/ Secreted Antigens of Toxoplasma Gondii Tachyzoites in the Murine  
Model , Veterinary Parasitology 113(2003) 123-134

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Responses In preimmunized Mice Lymphocytes By Bordetella Pertusis Cell Wall  
Component,Iranian .J .Allergy,Asthma and Immunology,vol2,No.1,March 2003

21-Mahdavi.O.S,Lotfi.A;Khosravi.A.R,Salehnia.M;Zavarani Hosseini.A and  
Kazemnejad.A.;Evaluation of the Elastase Activity of Different Aspergillus  
fumigatus Isolated from Human and Animal  
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22-Yari.F,Zavarani Hosseini.A,NematGorgani.M.,Sareh.S.,  
Khoramizadeh .M.R,Mansori.p.,Kazem Nejad.A.٭Production and Characterization  
of Monoclonal Antibodies with Specificity for Human HLA- G  
Isoforms,HYBRIDOMA AND HYBRIDOMICS, Vol22,No5,2003

23- Dalimi,A.,Ghaffari Far,F. and Zavarani Hoosseini.A.٭Association between  
Serum IL-4 Levels and Cyst Relapsing in Cystic Echinococcosis٭Arch.Razi  
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HYBRIDOMICS, 22 (5): 343-344, OCT 2003

25- Fattahi.A.,Zavarani Hosseini.A.,Dalimi Asl.A.H.,Mahmodzadeh .A and Ghaffari  
Far.F., ٭Purification and Structural Characterization of the Major Glycoconjugate  
from Leishmania .L.major(MRHO/IR/75/ER) ٭J Shahid Sadoghi University of  
Medical Sciences,Vol11,No.2 ,2003(Persian ,Abstract in English)

26- Kharazi. S, Zavarab Hosseini.A, Tiraihi.T, "The Role of over production of nitric oxide in Apoptosis of Balb/c Mice Macrophages Infected with leishmania Major in vitro", Iranian Journal of Allergy, Asthma and Immunology, Vol 2, No 4, Dec 2003, 209-214

27- Pakzad.I, Rezaee.A, Rasaee.MJ, Zavarab.H.A, Kazemnejad.A, Tabaraee.B, "Improving Method of Chromosomal DNA Extraction of Brucella melitensis for Multiplying Gene Pieces by PCR", Daneshvar, Vol 11, No50, May 2004(Persian ,Abstract in English)

28- Pakzad.I, Rezaee.A, Rasaee.MJ, Zavarab.H.A, Kazemnejad.A, Tabaraee.B, Raivandi.S, "Extraction, Purification and Detoxification of Brucella abortus Lipopolysaccharide and Biological Activities Evaluation", Hakim J., No4, 2004 (Persian ,Abstract in English)

29- Roudbar mohammadi.SH, Zavarab Hosseini.A, Khosravi.AR, Aslani.J, " Effects of Strain, Temperature and Media Composition on The Production of Catalase Antigen in Aspergillus fumigatus", Fac.Vet.Med Univ.Tehran, 59,1: 73-78, 2004 (Persian ,Abstract in English)

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32-Abdolapoor.M.,Ghaffarifar.F.,Dalimi.A.,Zavarab.A.et al.,Effect of Vitamine D3 and INF-Gama on Proliferation of Toxoplasma gondii and Nitric oxide production in Balb/c Macrophages,J.Mazandaran University of Medical Sciences,Vol 16 ,No.2,2006(Persian,English Abstract)

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37- S. Soudi, M.Sc. ,A. Zavarani Hosseini, Ph.D., S. Rafati, Ph.D., R. Hashemi Fesharki, Ph.D., K. Esmaeilnia, Ph.D., S.M. Hashemi, M.Sc. Comparison the Protective Effect of Mucosal BCG Vaccination with Subcutaneous Against Leishmania Major Infection in Susceptible BALB/c Mice ,Yakhteh Medical Journal 8( 32), 232-318, .( Persian ,English Abstract)2007

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39-Pirdel .L And Zavarani Hosseini.A., Synergistic Effect of LPS, IFN- $\gamma$  and Iron on Apoptosis of Balb/c Mice Macrophages Following Nitric Oxide Production,Iran J Basic Med Sci,11(30),190-196,2009

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- 44) Esmaeilli Davood, Mohabati Mobarez Ashraf, Salmanian Ali Hatef and Zavarani Hosseini, Optimization of *Helicobacter pylori* culture in order to Prepare favorable antigens, Journal of Bacteriology Research Vol. 1(9), pp. 101-104, 2009
- 45) R. Rahimi\*, A.Zavarani Hosseini\* & F. Yari, The polymorphism of human leucocyte antigen-G gene in a healthy population of Iran, , International Journal of Immunogenetics, 1–4, 2010
- 46) Arzanloo M, Satari M, Zavarani Hosseini A. and Faezi S, Investigation of protective effects of *Pseudomonas aeruginosa* anti-flagellar antibodies in burned-induced infection BALB/c mice, The Modares Journal of Medical Sciences: Pathobiology Page 1-10 (10), Winter 2010 (Persian, Abstract in English)
- 47) Ansari M, Zavarani Hosseini A and Yari F,  $\gamma$  Analysis of HLA-G transcripts on the expression PBMCs of normal and lupus individuals and effect of IFN-Gamma on the HLA-G, The Modares Journal of Medical Sciences: Pathobiology Page 1-10 (10), Winter 2010 (Persian, Abstract in English)
- 48) Tebianian M, Zavarani Hoseini A., Ebrahimi S.M., Rezaei Mokaram A., Taghizadeh M., Asli E. , Cloning, expression, and immunogenicity of novel fusion protein of *Mycobacterium tuberculosis* based on ESAT-6 and truncated C-terminal fragment of HSP70 Biologicals 03/2011; 39(3):143-8
- 49) D. Esmaeilli, A. Mohabati Mobarez, A.H. Salmanian, A. Z. Hosseini and R. Hosseini Doust, Immune Responses of Conserved 32 kD fragment from N-terminal of *H. pylori* cagA gene, Journal of Pure & Applied Microbiology, Vol4(1), 117-123, 2010
- 50) Ali Shams Shahemabadi, Ahmad Zavarani Hosseini, Shapour Shaghasempour, Mohammad Reza Masjedi, Majid Rayani, Majid Shams, Nasrin Esphandyari, Majid Pouramiri, IL-10 and IL-12 Production in Response to *Mycobacterium Tuberculosis* Total Lipid Antigens in Multidrug- Resistant Tuberculosis, Iranian J Immunology, Vol. 7 ( 1) 57-63, 2010

51- Sara Soudi, M.Sc.,<sup>1</sup> Ahmad Zavarani-Hosseini, Ph.D.,<sup>1,\*</sup> Zuhair Muhammad Hassan, Ph.D.,<sup>1</sup> Masoud Soleimani, Ph.D.,<sup>2</sup> Fatemeh Jamshidi Adegani, M.Sc.,<sup>3</sup> and Seyed Mahmoud

**Hashemi**, Comparative Study of The Effect of LPS on The Function of BALB/c and C57BL/6 Peritoneal Macrophages, *Cell J.* 2013 Spring; 15(1): 45–54.

**52- Samaneh Khorrami, Ahmad Zavarani Hosseini,\*, Seyed Javad Mowla,<sup>2</sup> and Reza Malekzadeh, Verification of ALDH Activity as a Biomarker in Colon Cancer Stem Cells-Derived HT-29 Cell Line, Iran J Cancer Preven. 2015 October;1-8, 8(5):**

**53-Mousa Mohammadnia-Afrouzia, Ahmad Zavarani Hosseini, Ali Khalilib, Saeid Abediankenari, Vahid Hosseini & Iradj Malekic, Decrease of CD4+ CD25+ CD127low FoxP3+ regulatory T cells with impaired suppressive function in untreated ulcerative colitis patients, Autoimmunity, 2015 Dec;48(8):556-61**

**54- Fereshteh Alsahebhosouli, Ahmad Zavarani Hosseini, Rasoul Salehi, Masood Etemadifar, Nafiseh Esmaili, and Azam Jamshidian, Evaluation of Soluble Human Leukocyte Antigen-G (sHLA-G) Isoforms and Regulatory T Cells in Relapsing-Remitting Multiple Sclerosis, Iran J Allergy Asthma Immunol, June 2015; 14(3):298-305.**

**55-Elahe Safari, Ph.D,<sup>1</sup> Ahmad Zavarani Hosseini, Ph.D,<sup>1,\*</sup> Zuhair Hassan, Ph.D,<sup>1</sup> Khosro Khajeh, Ph.D,<sup>2</sup> Mehdi Shafiee Ardestani, Ph.D,<sup>3</sup> and Behzad Baradaran, Cytotoxic Effect of Immunotoxin Containing The Truncated Form of Pseudomonas Exotoxin A and Anti-VEGFR2 on HUVEC and MCF-7 Cell Lines, Cell J. 2014 Summer; 16(2): 203–210**

**56 Maryam Azimi Mohamadabadi<sup>1</sup>, Zuhair Mohammad Hassan<sup>1\*</sup>, Ahmad Zavarani Hosseini<sup>1</sup>, Mehrdad Gholamzad<sup>1</sup>, Shekoofe Noori<sup>2</sup>, Mehdi Mahdavi<sup>3</sup>, Hamidreza Maroof. Arteether Exerts Antitumor Activity and Reduces CD4+CD25+FOXP3+ T-reg Cells in Vivo, Iran J Immunol. 2013; 10(3):139-49**

**57-Mousa Mohammadnia-Afrouzi, Ahmad Zavarani Hosseini, Ali Khalili, Saeid Abediankenari, Afshin Amari, Babak Aghili & Hadi Hossein Nataj, Altered microRNA Expression and Immunosuppressive Cytokine Production by Regulatory T Cells of Ulcerative Colitis Patients, Immunological Investigations, Volume 45, Issue 1, 2016, pages 63-74**

**LIST OF PAPERS PRESENTED IN CONGRESSES AND SEMINARS :**



- 1) Purification and characterization of protein Antigens Isolated from mycobacterium tuberculosis (H37 R7 strain) and their Effects on Cell - mediated Immune Responses in Guinea pigs., 3th congress of Immunology and Allergy, Shiraz, I. R. Iran, 1997.
- 2) Effect of BCG Activated Macrophages on Candida Killing, 12th congress of tuberculosis, Hamedan, I.R. Iran, 1995.
- 3) Effect of Attenuated Measles Virus on Cell Mediated Immunity Following BCG Vaccination, 23rd Middle East Regional of th International Union Against Tuberculosis and lung Disease (I.A.T.L.D), IR. Iran 1997.
- 4) Isolation and Purification of Glutathion transfrase from F. Hepatica, Second Congress of Parasitical Disease, Tehran, I.R. Iran, 1996.
- 5) Study of Nitric Oxide Production Following Vaccination of BALB/C Mice Against Rubella, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.
- 6) Study of Nitric Oxide Production in Human Monocyte and BALB/C Mouse Macrophage Following Contract with Candida albicans, The Fourth International Congress of Immunology & Allergy, Isfahan, I. R. Iran, 1998.
- 7) Study of Effect of Supplemental Arginine & Citrulline on Inhibition of Leishmania major Multiplication in BALB/C Mice, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.
- 8) Study of Cell Mediated Immunity (CMT) Following Vaccination of BALB/C Mice Against Rubella, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.
- 9) Nitric Oxide Production by BALB/C Mice Macrophages Following Sensitization by BCG, The 14th Nation wide congress on Tuberculosis kashan, I.R. Iran 1998.
- 10) Enterotoxin production by Staphylococcus aureus in Vitro. 14th Iranian congress of Physiology and pharmacology, Tehran, I. R. Iran 1999.
- 11) Effect of Different concentration of Arginini or citrulline on Inhibition of

Leishmania major Multiplication in Murine peritoneal Macrophages, 14th Iranian Congress of physiology and pharmacology, Tehran, I. R. Iran, 1999.

12) Double Role of Nitric Oxide in Clinical Condition of Infected BALB/C Mice with Leishmania Major, 14th Iranian Congress of Physiology and Pharmacology, Tehran, I. R. Iran, 1999.

13) Evaluation of the Production of cytokines in Human Hydatidosis, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

14) Survival Rate and Cell Mediated Immunity of Balb/c Mice Immunized with Excretory, secretory Antigens of Toxoplasma gondii, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

15) Ex vivo Evaluation of NO production in Childhood All, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

16) The Effect of Nitric Oxide (NO) Generating Agent and Inhibitors of NO synthase on IL-4 and production, 5th Iranian Congress of Immunology and allergy, Tehran, I.R. Iran, 2000.

17) Nitric Oxide (NO) Production by macrophages of Balb/c mice sensitized with killed and viable BCG and Killed M. Tuberculosis (H37RV strain), 5th Iranian Congress of Immunology and Allergy, Tehran, Iran, 2000.

18- Purification of Cell Wall Mannoproteins Obtained From Candida albicans by Affinity Chromatography, Asian International Mycological congress, Sep 2001, Karag, Iran

19) Immune Responses against Excreted/Secreted Antigens of Toxoplasma gondii Tachyzoites in Murine Model, 11th International Congress of Immunology, Stockholm, Sweden, 22-27 July 2001

20) Comparison between human and mice IFN-gamma on nitric oxide production. 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

21) Production of monoclonal Antibody Against Human Epsilon chain, 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

22) Effect of the overload production of Nitric oxide on apoptosis of Balb/c

Mice Macrophages Infected with *L. major*, 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

23) Evaluation of T Lymphocyte responses against cell wall mannoproteins of *Candida albicans*, 6th Iranian congress of Immunology and Allergy, Tehran, 7-9 May 2002

24) Killing effect of antibiotics protein and peptide of human and rabbit neutrophils, Asian forum of Immunology and Oncology, Lebanon, Beirut, 21-25 Aug, 2002

24) Evaluation of Nitric Oxide Production by Monocytes in Children with Acute Lymphoblastic Leukemia, ISH2002, Korea

25) Evaluation of Lymphocyte Responses Against Cell Wall Mannoproteins of *Candida Albicans*, The 8th Congress of the European Confederation of Medical Mycology – ECMM, Budapest, Hungary, August 25-27, 2002

26-Zavaran Hosseini.A, Moghtadai.M and Yadegari.M.H "Ex vivo Evaluation of Hydrogen Peroxide ( $H_2O_2$ ) and Nitric Oxide Production in *C. albicans* infected Macrophages and Neutrophils of Diabetic Rat, 9th Congress of the European confederation of Medical Mycology, September 28, Amsterdam, The Netherlands

27-Purification of Main Metalloproteinase of *Leishmania* Surface Glycoprotein 63kD (GP63) from Logarithmic *Leishmania* (L) major (MRH0/IR/75/ER), 4th national Iranian congress of Parasitology & Parasitic Diseases, October 13, 2003, Mashhad, Iran

28-Abdollahi, Mahmoodzadeh.A., Zavaran.A., Dalimi.A "Evaluation of Excreted/Secreted Antigens Fractions of *Toxoplasma Gondii* Tachyzoites for Toxoplasmosis Diagnosis; 4th National Iranian Congress of Parasitology & Parasitic Diseases, October 13, 2003, Mashhad, Iran

29- Fattahi.A, Zavaran Hosseini.A. et al, Purification of Main Glycoconjugate (LPG) From Logarithmic Form (leptomonades) of *L. major* (MRHO/IR/75/ER), Skin Diseases & *Leishmania* Forum, April 2003, Esfahan, Iran

30-Kashanian S., Rassee M.J, Paknejad M and Zavaran A "Specific Detection

of Anti-Digoxin Monoclonal Antibody Using Digoxin-C3'-Penicillinase Tracer,IFCC-FESCC, 1June,2003, Barcellona, Spain

31-Zavaran Hosseini.A,Kharazi.S.and Tiraihi.T,Effect of Overload Production of Nitric Oxide On Apoptosis of Infected Balb/c Mice Macrophages with Leishmania major,15 european Immunology Congress(EFIS2003),June 8-12,2003, Rhodes Island-Greece

32-Lymphocyte Proliferation Assay (LPA) of Acute Cutaneous Leishmaniasis and Without CL Individuals on GP63 and LPG Molecules Purified from Leishmania(L) major (MRHO/IR/75/ER),The 7th Congress of Immunology &Allergy, 4-7 May2004,Mashhad,Iran

33-Zavaran Hosseini .A.,Fattahi.A.,Dalimi Asl.A., Mahmoodzadeh.A and Ghafari.F.,Evaluation of Cell Mediated Immunoresponses Against GP63 and LPG Molecules Purified from Leishmania (L) major [MRHO/IR/75/ER] in Healing and Non-Healing Human Patient,The 7th Congress of Immunology & Allergy,4-7 May 2004,Mashhad,Iran

34- Daryani.A, Zavaran.H.A, Dalimi asl.A ,Immun Responses Against Excreted / Secreted Antigens from Peritoneal Exudates of Infected Mice, 12th International congress of Immunology, 18 – 23 July 2004, Montreal, Canada

35- Zavaran.H.A, Yari.F, Gorgani.N, Khorrami zade.MR, Mansouri.P, Differential Pattern of HLA-G Expression in Human Epidermal skin Cells of Normal vs.Autoimmune (Pemphigus Vulgaris) Individuals, 18 – 23 July 2004, Montreal, Canada

36- Zavaran.H.A, Fattahi.A, Dalimi asl.AH, Mahmoud zadeh.A, Ghaffari.F, Evaluation of Cell Mediated Immunoresponses Against GP63 and LPG Molecules Purified from Leishmania (L)major In Healing and Non-Heal Human Patients ,18 – 23 July 2004, Montreal, Canada

37- Zavaran.H.A, Zarei.N, Pourfathollah.AA., Detection of Lactoferrin in Neutrophils and Plasma Hepatitis C Patient, 13th EAACI Congress, 12-16 June 2004, Amsterdam

38)Zarei.N,Zavaran.H.A,and Pourfathollah.A.A “Comparison of Lactoferrin Levels in HCV Patients and Healthy Donors Plasma”First International Congress on Immunodeficiency Disorders,2005,Iran

39) Sotoodeh.M, Zavarani.H.A, Asilian H. and Mohammadi Roudbari.S' Study of Allergic Effects of Wheat Flour Dusts on Yasug Flour Mill Workers, The second Iranian Asthma Meetin, 2005, Iran.

40) Zavarani.H.A." Nitric Oxide (NO) in Patients with Asthma" The second Iranian Asthma Meetin, 2005, Iran

41) Farzaneh.P., Hassan.Z.H, Pourpak .Z, Zavarani H.A. and Zahedi.F" The Comparison of Bronchoalveolar Lavage Fluid Level in Acute and Chronic Allergic Airway InflammATION Murine Models, The second Iranian Asthma Meetin, 2005, Iran.

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- 47-Zamani Taghizadeh.S.,Zavaran Hosseini.A. and Mesbah Namin.S.A,The role of 6-Aminonicotinamide on the Resistance of J774A.1 Macrophage Line against *Leishmania major*,The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006
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- 49-Zamani Taghizadeh.S.,Zavaran Hosseini.A. and Mesbah Namin.S.A,Increase in BALB/c Peritoneal resistance treated with Lipopolysaccharide and Melatonin against *Leishmania major* Infection, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006
- 50-Zamani Taghizadeh.S.,Zavaran Hosseini.A et al,Study the Mechanism of *Ganoderma Lucidum* Polysaccharide Extract on the Functions of Balb/c Peritoneal Macrophages, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006.
- 51-Zamani Taghizadeh.S.,Zavaran Hosseini.A. and Mesbah Namin.S.A,Study of tinhibitory effect of 6-Aminonicotineamide on G6PD activity and NO Production in Balb/c Peritoneal Macrophages, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006.
- 52-A.K.Jalilvand, Zavaran Hosseini.A.Fattahi.A. and Soudi.S.,Protective effect of Vitamine D3 and GP63 Conjugated with Tetaneus Toxoid on outcome of Cutaneous *Leishmaniasis* Lesions in Balb/c Mice. The 8th Iranian Congress of Immunology & Allergy,Tehran, Iran,16-18 May 2006
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- 54-Soudi.S.,Hashemi.S.M.,Ghaemi.A.and , Zavaran Hosseini.A,*Leishmania* Activity of *Echinacea Purpurea* Root Extract Cultivated in Iran, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006
- 55-Shams.A,and Zavaran Hosseini.A,MDR Immune System Function, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006
- 56-Soudi.S.,Hashemi.S.M.,Ghaemi.A.and , Zavaran Hosseini.A.,Inhibitory Activity of *Echeanacia Purpurea* Root Extract on Macrophage Function, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006.
- 57-Roudbarmohammadi.S., Zavaran Hosseini.A,Khosravi.A. and Aslani .J,Immunological Evaluation of *Aspergillus fumigatus* Catalase Antigen conjugated with Tetanus toxoid as a Vaccine in Murine Model, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006.
- 58-Zavaran Hosseini.A.1, S zamani Taghizadeh rabe, SA. Mesbah Namin.

The role of g6pd activators on the resistance of murine peritoneal macrophages against leishmania major, 16th European congress of Immunology, Paris,France, Sep 6-9,2006.

59-Zavaran hosseini.A., S Soudi, S Rafati, R hashemi fesharaki, K Esmaeilnia, S Hashemi. Rectal immunization with mycobacterium bovis protects susceptible balb/c mice against leishmania major, 16th European congress of Immunology, Paris,France, Sep 6-9,2006.

60-Zibandeh khouy.z., J Majidi, A Zavaran Hosseini.A., Z.M Hassan Generation and partial characterization of monoclonal antibody specific for human IgM,16th European congress of Immunology, Paris,France, Sep 6-9,2006.

#### LIST OF PAPERS PRESENTED IN CONGRESSES AND SEMINARS :

1) Purification and characterization of protein Antigens Isolated from mycobacterium tuberculosis (H37 R7 strain) and their Effects on Cell - mediated Immune Responses in Guinea pigs., 3th congress of Immunology and Allergy, Shiraz, I. R. Iran, 1997.

2) Effect of BCG Activated Macrophages on Candida Killing, 12th congress of tuberculosis, Hamedan, I.R. Iran, 1995.

3) Effect of Attenuated Measles Virus on Cell Mediated Immunity Following BCG Vaccination, 23rd Middle East Regional of th International Union Against Tuberculosis and lung Disease (I.A.T.L.D), IR. Iran 1997.

4) Isolation and Purification of Glutathion transfrase from F. Hepatica, Second Congress of Parasitical Disease, Tehran, I.R. Iran, 1996.

5) Study of Nitric Oxide Production Following Vaccination of BALB/C Mice

Against Rubella, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.

6) Study of Nitric Oxide Production in Human Monocyte and BALB/C Mouse Macrophage Following Contact with *Candida albicans*, The Fourth International Congress of Immunology & Allergy, Isfahan, I. R. Iran, 1998.

7) Study of Effect of Supplemental Arginine & Citrulline on Inhibition of *Leishmania major* Multiplication in BALB/C Mice, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.

8) Study of Cell Mediated Immunity (CMT) Following Vaccination of BALB/C Mice Against Rubella, The Fourth International Congress of Immunology & Allergy, Isfahan, I.R. Iran, 1998.

9) Nitric Oxide Production by BALB/C Mice Macrophages Following Sensitization by BCG, The 14th National wide congress on Tuberculosis kashan, I.R. Iran 1998.

10) Enterotoxin production by *Staphylococcus aureus* in Vitro. 14th Iranian congress of Physiology and pharmacology, Tehran, I. R. Iran 1999.

11) Effect of Different concentration of Arginine or citrulline on Inhibition of *Leishmania major* Multiplication in Murine peritoneal Macrophages, 14th Iranian Congress of physiology and pharmacology, Tehran, I. R. Iran, 1999.

12) Double Role of Nitric Oxide in Clinical Condition of Infected BALB/C Mice with *Leishmania Major*, 14th Iranian Congress of Physiology and Pharmacology, Tehran, I. R. Iran, 1999.

13) Evaluation of the Production of cytokines in Human Hydatidosis, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

14) Survival Rate and Cell Mediated Immunity of Balb/c Mice Immunized with Excretory, secretory Antigens of *Toxoplasma gondii*, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

15) Ex vivo Evaluation of NO production in Childhood All, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

16) The Effect of Nitric Oxide (NO) Binding Agent and Inhibitors of NO



synthase on IL-4 and production, 5th Iranian Congress of Immunology and allergy, Tehran, I.R. Iran, 2000.

17) Nitric Oxide (No) Production by macrophages of Balb/c mice sensitized with killed and viable BCG and Killed M. Tuberculosis (H37RV strain), 5th Iranian Congress of Immunology and Allergy, Tehran, Iran, 2000.

18-Purification of Cell Wall Mannoproteins Obtained From *Candida albicans* by Affinity Chromatography, Asian International Mycological congress, Sep 2001, Karag, Iran

19) Immune Responses against Excreted/Secreted Antigens of *Toxoplasma gondii* Tachyzoites in Murine Model, 11th International Congress of Immunology, Stockholm, Sweden, 22-27 July 2001

20) Comparison between human and mice IFN-gamma on nitric oxide production. 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

21) Production of monoclonal Antibody Against Human Epsilon chain, 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

22) Effect of the overload production of Nitric oxide on apoptosis of Balb/c Mice Macrophages Infected with *L. major*, 6th Iranian Congress of Immunology and Allergy, Tehran, 7-9 May 2002

23) Evaluation of T Lymphocyte responses against cell wall mannoproteins of *Candida albicans*, 6th Iranian congress of Immunology and Allergy, Tehran, 7-9 May 2002

24) Killing effect of antibiotics protein and peptide of human and rabbit neutrophils, Asian forum of Immunology and Oncology, Lebanon, Beirut, 21-25 Aug, 2002

24) Evaluation of Nitric Oxide Production by Monocytes in Children with Acute Lymphoblastic Leukemia, ISH2002, Korea

25) Evaluation of Lymphocyte Responses Against Cell Wall Mannoproteins of *Candida Albicans*, The 8th Congress of the European Confederation of Medical Mycology – ECMM, Budapest, Hungary, August 25-27, 2002

26-Zavaran Hosseini.A,Moghtadai.M and Yadegari.M.H"Exvivo Evaluation of Hydrogene Peroxide(H<sub>2</sub>O<sub>2</sub>) and Nitric Oxide Production in C.albicans infected Macrophages and Neutrophils of Diabetic Rat,9th Congress of the European cofederation of Medical Mycology,September28,Amesterdam,The Netherlandss

27-Purification of Main Metaloproteinase of Leishmania Surface Glycoprotein 63kD(GP63)from Logaritmic Leptomonades Leishmania(L) major (MRH0/IR/75/ER),4th national Iranian congress of Parasitology&Parasitic Diseases ,October13,2003,Mashhad,Iran

28-Abdollahi,Mahmoodzadeh.A.,Zavaran.A.,Dalimi.A"Evaluation of Excreted/Secreted Antigens Fractions of Toxoplasma Gondii Tachyzoites for Toxoplasmosis Diagnosis;4th National Iranian Congress of Parasitology & Parasitic Diseases ,October13,2003,Mashhad,Iran

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30-Kashanian S.,Rassee M.J,Paknejad M and Zavaran A"Specific Detection of Anti-Digoxin Monoclonal Antibody Using Digoxin-C3'-Penicilinase Tracer,IFCC-FESCC, 1June,2003, Barcellona, Spain

31-Zavaran Hosseini.A,Kharazi.S.and Tiraihi.T,Effect of Overload Production of Nitric Oxide On Apoptosis of Infected Balb/c Mice Macrophages with Leishmania major,15 european Immunology Congress(EFIS2003),June 8-12,2003, Rhodes Island-Greece

32-Lymphocyte Proliferation Assay (LPA) of Acute Cutaneous Leishmaniasis and Without CL Individuals on GP63 and LPG Molecules Purified from Leishmania(L) major (MRHO/IR/75/ER),The 7th Congress of Immunology &Allergy, 4-7 May2004,Mashhad,Iran

33-Zavaran Hosseini .A.,Fattahi.A.,Dalimi Asl.A., Mahmodzadeh.A and Ghafari.F.,Evaluation of Cell Mediated Immunoresponses Against GP63 and LPG Molecules Purified from Leishmania (L) major [MRHO/IR/75/ER] in Healing and Non-Healing Human Patient,The 7th Congress of Immunology & Allergy,4-7 May 2004,Mashhad,Iran

34- Daryani.A, Zavarani.H.A, Dalimi asl.A ,Immun Responses Against Excreted / Secreted Antigens from Peritoneal Exudates of Infected Mice, 12th International congress of Immunology, 18 – 23 July 2004, Montreal, Canada

35- Zavarani.H.A, Yari.F, Gorgani.N, Khorrami zade.MR, Mansouri.P, Differential Pattern of HLA-G Expression in Human Epidermal skin Cells of Normal vs.Autoimmune (Pemphigus Vulgaris) Individuals, 18 – 23 July 2004, Montreal, Canada

36- Zavarani.H.A, Fattahi.A, Dalimi asl.AH, Mahmoud zadeh.A, Ghaffari.F, Evaluation of Cell Mediated Immunoresponses Against GP63 and LPG Molecules Purified from Leishmania (L)major In Healing and Non-Heal Human Patients ,18 – 23 July 2004, Montreal, Canada

37- Zavarani.H.A, Zarei.N, Pourfathollah.AA., Detection of Lactoferrin in Neutrophils and Plasma Hepatitis C Patient, 13th EAACI Congress, 12-16 June 2004, Amsterdam

38)Zarei.N,Zavarani.H.A,and Pourfathollah.A.A “Comparison of Lactoferrin Levels in HCV Patients and Healthy Donors Plasma”First International Congress on Immunodeficiency Disorders,2005,Iran

39)Sotoodeh.M,Zavarani.H.A,Asilian H.and Mohammadi Roudbari.S’Study of Allergic Effects of Wheat Flour Dusts on Yasug Flour Mill Workers,The second Iranian Asthma Meetin,2005,Iran.

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### **BOOKS :**

- 1-Pediatric Immunology (Translated to Farsi)

### **RESEARCH STUDENTS SUPERVISE:**

- 1- Study of Intracellular Killing of Candida by Activated Macrophages. By: Farahyar. S, M. Sc
- 2- Purification and Partial Characterization of Candida albicans Protein Antigens. By: M.M. Mozafari; M. Sc.
- 3- Study of Cell Mediated Immunity (CMI) Against Measles Virus. By: Torabfam. A; M. Sc.
- 4- Study of Effect of supplemental Arginine and Citrulline on Inhibition of Leishmania major Multiplication BALB/C Mice. By: Razmjo. E; M. Sc
- 5- Study of Cell Mediated Immunity & Nitric Oxide Production Following Vaccination with Rubella vaccine in BALB/C Mice. By: Nikfarjam. L; M. Sc
- 6- Study on the Effect of Vitamin D3 and Interferon Gamma on Proliferation of Leishmania major in BALB/C Macrophages invitro. By: Agholi. M. Sc
- 7- Study of Nitric Oxide production in BALB/C Mice Macrophages and Human Monocyte Following Contact with Candida albicans. By: Pakzad: M. Sc
- 8) Study of Allergenic Effects of Wheat Flour Dusts on Yasuj Flour Mill Workers and its possible Remedial Measures. By: sotoodeh. M; M.Sc
- 9) Study of Nitric Oxide production in pre & post Treatment of Acute Lymphocytic Leukemia By: Chegini.M, M. Sc
- 10- Study of Nitric Oxide Production Following Immunization with BCG, Killed BCG and Killed Mycobacterium tuberculosis (H37R7 Strain) By: Agai.F. M.Sc
- 11- Study of Nitric Oxide Effect on Secretion of T- helper 1 and T- helper 2- Associated Cytokines. By: Aliabdi. E. Ph.D
- 12- Production and partial Characterization of Monoclonal Antibody against purified Human. IgE in Order to Designing of Eliza Kit, By: Majidi. J; Ph. D
- 13- Evaluation of Cell Mediated Immunity (CMI) Against Excretory Antigens

of Toxoplasma by : Dariani. A; Ph.D

14- Immunological Evaluation of Aspergillus Fumigatus Catalase antigen conjugated with Tetanus Toxoid as a vaccine in murine model, Ph.D

15- Study of the Effect of Overload Production of Nitric Oxide on Apoptosis of Balb/c Mice Macrophages Infected with Leishmania Major, MS.c

16- The Purification of Human and Rabbit Neutrophils Antimicrobial Peptides and Comparison of Their Killing Effect on the E.coli , S.Typhi and C.albicans Micro Organisms , Ph.D

17- Study of Protection of Vitamin D and GP63 Conjugated with Tetanus Toxoid on Outcome of L.major Lesion in Balb/c Mice, MS.c

18- Isolation of Lactoferrin From Neutrophils of Human Infected with Hepatitis C , MS.c

19- Study of HLA-G Expression in Keratinocyte Cells of pemphigus Vulgaris disease in Human , Ph.D

20- Evaluation of Cell Mediated Immunity Against GP63 and LPG purified from L.Major in Balb/c Mice and Healing and non Healing Humans. Ph.D

21- Studies and Characterize the Function and Regulation of T and NKT Cells in MDR Tuberculosis Patient, Ph.D Thesis

22- Cloning and Expression of GP63 –HSP70 fusion Protein of Leishmania and Evaluation of Immune responses Against it in vivo and in vitro, Ph.D Thesis

23- Studies of Nitric oxide and Hydrogen peroxide Production in Neutrophils and Monocytes in Patient with Urinary tract Infection before and after Ciprofloxacin Therapy, Msc. Thesis

24- Study of the Effect of Iron Overload on Apoptosis of Balb/c Macrophages Infected with Leishmania major, Msc Thesis

25- *Cloning and Expression of GP63-HSP70 Fusion Protein of Leishmania and Evaluation of Immune Response Against It In vivo and In vitro, Ph.D. Thesis*

26- Study on the HLA-G Polymorphism in the Normal Population, Ms Thesis

## RESEARCH STUDENTS CO-SUPERVISE

1- Enterotoxin production by staphylococcus aureus in vitro. MSc

2- Isolation and purification of Hydatid Fluid Antigen and Evaluation of Cell Mediated Immunity .and production of Cytokines in Hydatid patients. Ph.D

3- Study of Effect of C.albicans Antigen on Th1 and Th2 Cytokine secretion patterns in BALB/C .Mice. Ph.D

4- Study on Immune Response Against GST Purified Antigen of fasciola Gigantica. Ph.D

5- Evaluation of Catalase Activity of Aspergillus fumigatus Pathogenic Isolate Using Rat Serum Antiprotease as a Factor in Pathogenicity. Ph.D

6- Evaluation of Immune response against Recombinant Fusion Protein L7/L12-Human Serum Albumin with Lipopolysaccharide of Brucella Abortus in Murine Model. Ph.D

- 7- Isolation of Extracellular Aspartil Proteinases from Isolated Candida Albicans.MSc
- 8- Evaluation of Elastase Activity in Aspergillus Pathogenic isolate Using rat Serum Antiprotease as a Factor in Pathogenicity , Ph.D
- 9- Effect of Antibiotic on Nitric Oxide Production Induced by S.aures in Mice Macrophages , MS.c
- 10- Production of Monoclonal Antibody Against Human IgG , MS.c
- 11- Isolation and Purification of FHA and PT Antigen of B.Pertusis for using as a Vaccine Against B.pertusus , Ph.D

#### REFeree FOR JOURNAL ARTICLES SUBMITTED TO

- 1) Medical Journal of the IR. IRAN
- 2) Kowsar Medical Journal
- 3) Daneshvar Journal
- 4) Iranian Journal of Medical Sciences
- 5) Pajouhesh & Sazandegi
- 6) Modarres Journal of Medical Sciences
- 7) Research in Medical Sceinces
- 8) Journal of Arch.Razi.Inst
- 9) Iranian Journal of Allergy,Asthma & Immunology
- 10) Iranian Biomedical Journal

and expression of Mycobacterium tuberculosis ESAT-6 in prokaryotic system Archives of Razi Institute, Vol. 64(1), 1-7 , 2009

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15- Study of the Effect of Overload Production of Nitric Oxide on Apoptosis of Balb/c Mice Macrophages Infected with Leishmania Major, MS.c

16- The Purification of Human and Rabbit Neutrophils Antimicrobial Peptides and Comparison of Their Killing Effect on the E.coli , S.Typhi and C.albicans Micro Organisms , Ph.D

17- Study of Protection of Vitamin D and GP63 Conjugated with Tetanus Toxoid on Outcome of L.major Lesion in Balb/c Mice, MS.c

18- Isolation of Lactoferrin From Neutrophils of Human Infected with Hepatitis C , MS.c

19- Study of HLA-G Expression in Keratinocyte Cells of pemphigus Vulgaris disease in Human , Ph.D

20- Evaluation of Cell Mediated Immunity Against GPb3 and LPG purified from L.Major in Balb/c Mice and Healing and non Healing Humans. Ph.D

21-Studies and Characterize the Function and Regulation of T and NKT

Cells in MDR Tuberculosis Patient, Ph.D Thesis

22-Cloning and Expression of GP63 –HSP70 fusion Protein of Leishmania and Evaluation of Immune responses Against it in vivo and in vitro, Ph.D Thesis

23-Studies of Nitric oxide and Hydrogen peroxide Production in Neutrophils and Monocytes in Patient with Urinary tract Infection before and after Ciprofloxacin Therapy, Msc. Thesis

24-Study of the Effect of Iron Overload on Apoptosis of Balb/c Macrophages Infected with Leishmania major, Msc Thesis

25- *Cloning and Expression of GP63-HSP70 Fusion Protein of Leishmania and Evaluation of Immune Response Against It In vivo and In vitro, Ph.D. Thesis*

26-Study on the HLA-G Polymorphism in the Normal Population, Ms Thesis

## RESEARCH STUDENTS CO-SUPERVISE

1- Enterotoxin production by staphylococcus aureus in vitro. MSc

2- Isolation and purification of Hydatid Fluid Antigen and Evaluation of Cell Mediated Immunity .and production of Cytokines in Hydatid patients. Ph.D

3- Study of Effect of C.albicans Antigen on Th1 and Th2 Cytokine secretion patterns in BALB/C .Mice. Ph.D

4- Study on Immune Response Against GST Purified Antigen of fasciola Gigantica. Ph.D

5- Evaluation of Catalase Activity of Aspergillus fumigatus Pathogenic Isolate Using Rat Serum Antiprotease as a Factor in Pathogenicity. Ph.D

6- Evaluation of Immune response against Recombinant Fusion Protein L7/L12-Human Serum Albumin with Lipopolysaccharide of Brucella Abortus in Muren Model. Ph.D

7- Isolation of Extracellular Aspartil Proteinases from Isolated Candida Albicans. MSc

8- Evaluation of Elastase Activity in Aspergillus Pathogenic isolate Using rat Serum Antiprotease as a Factor in Pathogenicity , Ph.D

9- Effect of Antibiotic on Nitric Oxide Production Induced by S.aures in Mice Macrophages , MS.c

10- Production of Monoclonal Antibody Against Human IgG , MS.c

11- Isolation and Purification of FHA and PT Antigen of B.Pertusis for using as a Vaccine Against B.pertusis , Ph.D

## REFEREE FOR JOURNAL ARTICLES SUBMITTED TO

1) Medical Journal of the IR. IRAN

2) Kowsar Medical Journal

3) Daneshvar Journal

4) Iranian Journal of Medical Sciences

5) Pajouhesh & Sazandegi

- 6) Modarres Journal of Medical Sciences
- 7) Research in Medical Sciences
- 8) Journal of Arch.Razi.Inst
- 9) Iranian Journal of Allergy,Asthma & Immunology
- 10) Iranian Biomedical Journal

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