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5- Immunogenetics 6- Immunochemistry 7- HLA

8- Mucosal Immunity

9- Immunology of Infectious Diseases

RESEARCH PUBLICATIONS

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of Cytokines in Schizophrenic Patients before and after Treatment with Risperidone.Iran J Allergy Asthma Immunol 2019 Jun 8;18(3):262-268.

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83-HLA, Host Response and Global Patterns of Covid-19
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84-Evolution of M13 Bacteriophage and RGD Peptide Effects on Induction of Angiogenesis and Regenerative Potential of Mouse Primary Lymph Node Fibroblasts
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85-Evaluation of Ficolin-3 (FCN3) 1637delC (rs28357092) Frameshift Mutation in Iranian Type 2 Diabetic Subjects
SP Dibazar, AZ Hosseini, F Yari, S Fateh, MR Deyhim
International Journal of Medical Laboratory

86-Mesenchymal stem cell-conditioned medium prevents inflammation-induced liver and lung damage in septic mice
Elaheh Shahi [a], Arezou Khosrojerdi [b 1], Sara Soudi [a], Ahmad Zavaran Hosseini [a]International Immunopharmacology,Date: 20 August 2024

Volume: 137 , 10.1016/j.intimp.2024.112407

87-The effect of mesenchymal stem cell-derived supernatant nasal administration on lung inflammation and immune response in BCG-vaccinated BALB/c mice
Abolfazl Chenari [a 1], Ali Hazrati [b 1], Ahmad Zavaran Hosseini [a], Mahdieh Motiee [a], Sara Soudi [a]Life Sciences,Date: 15 March 2023'Article: 121465,Volume: Volume 317

88-The Relationship between Autophagy Process and Expression of MicroRNA-146a-5p in MKN-45 and MCF-7 Cell, Atefe Alirezaee | Ahmad Zavaran Hosseini | Sara Soudi | Nazanin Atieh Kazemi-Sefat | Mohammad Mahdi Jafari,https://doi.org/10.18502/ijaai.v24i4.19128

89-Exploring the Impact of Leishmania Major on Mesenchymal Stem Cells: Evaluating Differentiation, and Immunomodulatory Function,Elham Mashayekh,, Arezou Khosrojerdi,2,, Ahmad Zavaran Hosseini', and Sara Soudi

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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.

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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, 14thIranian 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, 5thIranian 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 gondaii, 5th Iranian Congress of Immunology and Allergy, Tehran, I.R. Iran, 2000.

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16. The Effect of Nitric Oxide (NO) Bonating 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), 5thIranian 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 Tachyzoitesin Murine Model,11th International Congress of Immunology, Stokholm,Sweden,22-27 .July 2001

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

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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 Alergy,Tehran,7-9 May 2002

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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

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32. Lymphocyte Proliferation Assay (LPA) of Acute Cutaneous Leishmanisis and Without CL Individuals on GP63 and LPG Molecules Purified from Leishmania(L) major

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39. Sotoodeh.M,Zavaran.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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41. Farzaneh.P.,Hassan.Z.H,Pourpak .Z,Zavaran 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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Biochemistry and The 1th International Congress of Biochemistry &Molecular Biology,Sep.11-15,2005,Tehran,Iran.

44. Soudi.S.,Hashemi.S.M,Ghaemi.A.and Zavaran.H.A,The Effect of Echinacea Extract on Viability,Proliferation and Morphology of Spleenocytes and Macrophages in Vitro, 8th Iranian Congress of Biochemistry and The 1th International Congress of Biochemistry &Molecular Biology,Sep.11- 15, 2005, Tehran,Iran.

45. Zamani-taghizadeh.S.,Zavaran H.A."The role of G6PD Activity on Nitric Oxide Production And Cell Viability in Balb/c Peritoneal Macrophages, 8thIranian Congress of Biochemistry and The 1th International Congress of Biochemistry &Molecular Biology,Sep.11-15,2005,Tehran,Iran

46. Arzanlou M., Rezaee A., Shahrokhi N., Zavaran Hosseini A., Ahangarzadeh Rezaee M Expression of B subunit of cholera toxin in Saccharomyces cerevisiae ,

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48. 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

49. Zamani Taghizadeh.S.,Zavaran Hosseini.A. and Mesbah Namin.S.A,The Role of Dehydroepiandrosterone on the Cell Cytotoxicity and NO Production in J774.1 Line Macrophages,The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006.

50. Zamani Taghizadeh.S.,Zavaran Hosseini.A. and Mesbah Namin.S.A,Increase in BALB/c Peritoneal resistance treated with Lipopolysaccaride and Melatonin against Leishmania major Infection, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006

51. 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.

52. 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.

53. 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

54. Pirdel.L, Zavaran Hosseini.A and Tiraihi.T.,Studies on the Role of Iron Overload in Apoptosis of Balb/c Mice Macrophages Infected with Leishmania major iIn Vitro, The 8th Iranian Congress of Immunology & Allergy,Tehran,Iran,16-18 May 2006

55. Soudi.S.,Hashemi.S.M.,Ghaemi.A.and , Zavaran Hosseini.A,Leishmania Activity of Echinacea Purpurea Root Extract Cultivated in Iran, The 8thIranian Congress of Immunology & Allergy, Tehran, Iran,16-18 May 2006

56. 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 8thIranian 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.

SEARCH PROJECT :

1) Evaluation on different methods for PPD providing in different stage.

2) Determination of synergistic Effects of Allergens in Allergic Asthma and its Possible Mechanisms in a Murine Model.

BOOKS :

1-Pediatric Immunology (Translated to Farsi)

RESEARCH STUDENTS SUPERVISE:

1. Study of Intracellular Killing of Candid a by Activated Macrophages. By: Farahyar. S, M. Sc

2. Purification and Partial Characterizatoin of Candid a 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; MSc

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 Candid a albicans. By: Pakzad: MSc

8. Study of Allergenic Effects of Wheat Flour Dusts on Yasuj Flour Mill Workers and its possible Remedial Measures. By: sotoodeh. M; MSc

9. Study of Nitric Oxide production in pre & post Treatment of Acute Lymphocytic Leukemia By: Chegini.M, MSc

10. Study of Nitric Oxide Production Following Immunization with BCG, Killed BCG and Killed Mycobacterium tuberculosis (H37R7 Strain) By: Agai.F. MSc

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. lgE 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 Toxid 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,MSc

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

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

18. Isolation of Lactoferin From Neutrophils of Human Infected with Hepatit 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 invivo and invitro,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 CiprofloxacinThrapy,Msc. Thesis

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

25. *Cloning and Expression of GP63-HSP70 Fusion Protein o f 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

27. Production and Characterization of a Novel Immunoliposome, Encapsulated Anthrax Lethal Factor Toxin ,Targeted by Recombinant Nanobody Anti-CD19 And Evaluations of Cytotoxicity on the Human B Cell Line,PhD Thesis

28. Soluble HLA-G 5,6,7,Expression in Gastric Adenocarcinoma,Msc Thesis

29. Study of microRNA expression protein in colon cancer stem cells and evaluating immunomodulatory effects of miR-146a on immune response,PhD Thesis

30. Evaluation of Balb/c peritoneal macrophages function, sensitized with two -Alumina and Chitosan nanoparticles loaded with Leishmania major Secretory and Excretory Antigens , Msc Thesis.

31. Production of a Mycobacterium tuberculosis Fusion Protein consist of ESAT-6 with HSP70 and Evaluation of Immune Responses Following Intranasal Administration, PhD Thesis

32. Production of Monoclonal Anti-EGFR-recombinant PE38 Immunotoxin and Evaluation of it s Effect on Induction of Appoptosis in Tumoral cell line, PhD Thesis

33. Production of Anti-VEGFR-2 recombinant PE38 Immunotoxin and Evaluation of Its Effect on the HUVEC and MCF-7 Cell Lines In Vitro, PhD Thesis

34. Survey on the prevalent HLA-E alleles (HLA-E*01:01, HLA-E*01:03) in normal population of Iran and compare it with hyperglycemia subject,Msc Thesis

35. Study the effect of isolated fibroblasts from BCG stimulated lymph nodes of mouse to induce regulatory T cells from naive T cells, Msc Thesis

36. Study of the immunomodulatory effect of BALB/c & C57BL/6 MSC on Leishmania major infected peritoneal macrophage function, Msc Thesis

37. Survey on the correlation between c.1119 c>t (rs5888) singel nucleotide polymorphism in Scavenger Receptor B1 gene and lipid levels in hyperlipidemia subjects, Msc Thesis

38. Survey on the correlation between the frameshift mutation 1637delc (rs:28357092) in ficolin3 gene and type 2 Diabetes, Msc Thesis

39. Evaluation of association between Artemisia vulgaris allergy with subtype of HLA-DRB1 in Khorasan,

Msc Thesis

40. Study of the effect of zinc on the process of autophagy in BCG infected macrophages, Msc Thesis

41. Study effect CPA (Cysteine peptidaes A), CPB (Cysteine peptidaes B) conjugated with alpha-alumina nanoparticle in induction autophagy-dependent cross-presentation and in vitro leishmania major growth inhibition.PhD Thesis

42. Comparsion of Pattern of Autophagy in Mycobacterium bovis (BCG) and Leishmania major in Balb/c mice macrophages, Msc Thesis

43. Cloning and Expression of LPG3 Gene of Leishmania infantum in Leishmania Tarentolae and Evaluation of Immune Responses against it in BALB/c Mice, PhD Thesis

44. Study of the Effect of Vitamin D and GP63 Conjugated with Tetanus Toxoid on outcome of Leishmania Lesions in BALB/c Mice, Ms Thesis

45. Study the effect of L.major infected macrophages on the induction and function of induced FOXP3+

Treg, PhD Thesis

46. Study the effect of intraperitoneal injection of two -Alumina and PLGA nanoparticles loaded with two Cystein peptidase antigens A,B (CPA&CPB) on Leishmania major lesion development in Balb/c mice, PhD Thesis

47. Investigation of expression level of miR-21, miR-31, miR-146a and miR-155 in T regulatory cells of Ulcerative Colitis patients and their relation with Treg cells number and suppressive function, PhD Thesis

48. Study on the Polymorphism of the Genes CD127, CD25, CD58, CD226 and HLA-G in Relapsing Remmiting Multiple Sclerosis (RRMS) Patients in Order to Identify Disease Susceptibility Gene Variants and Determine Changes in T reg Populations in sHLA-G+ Patients,PhD Thesis

49. Comparing the expression level of miR-146a and miR-155 in macrophages derived from peripheral blood of patients with schizophrenia and healthy controls in response to intracellular pathogens (Toxoplasma, Leishmania), PhD 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 Gicantica.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 Albomin with Lipopolysacaride of Brucella Abortus in Muren Model.Ph.D

7. Isolation of Extracellular Aspartil Proteinas 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 Thesis

12. Study the effect of Adipose-derived mesenchymal stem cell injection on immune responses to Leishmania major infection in BALB/c mice, Ms Thesis

13. Immunomodulatory effects of Arteether in tumor bearing mice, Ms Thesis

14. A comparative analysis of acquired immune responses and expression patterns of miR-21, miR-31, miR-146a and miR-155 in patients with latent and active tuberculosis and healthy individuals, PhD Thesis