

PhD **Tarbiat Modares University, Tehran, Iran** 2006
Medical Immunology

Advisor: Professor Zuhair Mohammad Hassan, PhD.
Thesis: Evaluation of the effect of post-burn heating on healing of burned skin and burn-induced immunosuppression in Balb/c mice

MD **Tehran Medical Sciences University, Tehran, Iran** 1996
General Medicine

HONORS & AWARDS

Top Researcher in Innovation of Medical Sciences, 5th International 2014
Academic Foundation of Professor Alireza Yalda

Awarded 4th Place, 16th International Razi Research Festival on Medical 2011
Sciences / Specialized Committee on Innovation & Inventions

Best Dissertation in Medical Sciences, Tarbiat Modares University 2006-
2007

Ranked 1st Place, Entrance Exam for PhD Program in Medical Immunology 2001

Techniques:

ELISA - SDS PAGE - Western Blot – Cell Culture – Cell Proliferation Assays – PCR – RT PCR
Flow Cytometry – Immunohistochemistry – Working with laboratory animals –
Development of animal model of diseases such as Allergic Asthma, Experimental Autoimmune
Encephalomyelitis and Rheumatoid Arthritis – Fractal Analysis - Familiarity with MATLAB

PUBLICATIONS

Book Chapters

1. Memory of Water and Law of Similars, In: Bioelectromagnetic and Subtle Energy Medicine (Second Edition). Edited by: Paul Roasch., ", CRC Press, 2014.

Journal Articles

1. Azar AF, Jazani NH, Bazmani A, Vahhabi A, **Shahabi S**. Polymorphisms in Beta-2 Adrenergic Receptor Gene and Association with Tuberculosis. *Lung*. 2016 Nov 29. [Epub ahead of print]
2. Khorshidvand Z, **Shahabi S**, Mohamadzade H, Daryani A, HazratiTappeh K. Mixture of Alum--Naloxone and Alum--Naltrexone as a novel adjuvant elicits immune responses for Toxoplasma gondii lysate antigen in BALB /c mice. *Exp Parasitol*. 2016 Mar;162:28-34.
3. Sadeghi M, Rabiepoor S, Forough AS, Jabbari S, **Shahabi S**. A Survey of Medical Students' Knowledge and Attitudes Toward Complementary and Alternative Medicine in Urmia, Iran. *J Evid Based Complementary Altern Med*. 2015 Sep 21. pii: 2156587215605751. [Epub ahead of print]
4. Mohammadzadeh Hajipirloo H, Bozorgomid A, **Shahabi S**, HazratiTappeh K, Karamati SA. Evaluation of Alum-Naltrexone Adjuvant Activity, on Efficacy of Anti-Leishmania Immunization with Autoclaved Leishmania major (MRHO/IR/75/ER) Antigens in BALB/C Mice. *Iran J Parasitol*. 2014 Sep;9(3):311-8.
5. **Shahabi S**, Mohammadzadeh Hajipirloo H, Keramati A, HazratiTappeh K, Bozorgomid A. Evaluation of the adjuvant activity of propranolol, a Beta-adrenergic receptor antagonist, on efficacy of a malaria vaccine model in BALB/c mice. *Iran J Allergy Asthma Immunol*. 2014 Oct;13(5):307-16.
6. **Shahabi S**, Azizi H, Mazloomi E, Tappeh KH, Seyedi S, Mohammadzadeh H. A novel adjuvant, the mixture of alum and naltrexone, augments vaccine-induced immunity against Plasmodium berghei. *Immunol Invest*. 2014;43(7):653-66.
7. Tappeh KH, Khorshidvand Z, **Shahabi S**, Mohammadzadeh H. A novel adjuvant, mixture of Alum and naltrexone, elicits humoral immune responses for excreted/secreted antigens of Toxoplasma gondii tachyzoites vaccine in Balb/c murine model. *Turkiye Parazitoloj Derg*. 2013;37(2):92-6.
8. Khalili A, Hassan ZM, **Shahabi S**, Pourfathollah AA, Ostad SN, Noori S, Mahdavi M, Haybar H, Langroudi L. Long Acting Propranolol and HSP-70 Rich Tumor Lysate Reduce Tumor Growth and Enhance Immune Response against Fibrosarcoma in Balb/c Mice. *Iran J Immunol*. 2013 Jun;10(2):70-82.
9. Tappeh KH, Khorshidvand Z, **Shahabi S**, Mohammadzadeh H. A Novel Adjuvant, Mixture of Alum and Naltrexone, Elicits Humoral Immune Responses for excreted/secreted Antigens

of *Toxoplasma gondii* Tachyzoites Vaccine in Balb/c Murine Model. *Turkiye Parazitoloj Derg.* 2013;37(2):92-96.

10. Salimi V, Tavakoli-Yaraki M, Mahmoodi M, **Shahabi S**, Gharagozlou MJ, Shokri F, Mokhtari-Azad T. The Oncolytic Effect of Respiratory Syncytial Virus (RSV) in Human Skin Cancer Cell Line, A431. *Iran Red Crescent Med J.* 2013 Jan;15(1):62-7.
11. **Shahabi S***, Kasariyans A, Noorbakhsh FN. Like cures like: A neuroimmunological model based on electromagnetic resonance. *Electromagn Biol Med.* 2013 Jan 23.
*corresponding Author
12. Azadbakht MK, Mazloom R, **Shahabi S**, Mani AR. Effect of endotoxemia on heart rate dynamics in rat isolated perfused hearts. *Physiology and Pharmacology* 2013; 17 (1), 15-26 (Article in Persian).
13. Mazloomi E, Jazani NH, **Shahabi S***. A novel adjuvant, mixture of alum and the beta-adrenergic receptor antagonist propranolol, elicits both humoral and cellular immune responses for heat-killed *Salmonella typhimurium* vaccine. *Vaccine.* 2012 Mar 30;30(16):2640-6.
*corresponding Author
14. Shahram Seyedi, Abbas Rezaei, Alireza Andalib, Seyed Mohsen Hosseini, Seyed Abbas Tabatabaei, Seyed Reza Mohebbi, Mohammad Reza Zali, Mohamad Vafai, Roubik Behboo, **Shahabi S**. The effects of isoproterenol and propranolol on the cytokine profile secretion by cultured tumor-infiltrating lymphocytes derived from colorectal cancer patients. *Cell Journal (Yakhteh)*. (Accepted).
15. Azarpira N, Amini M, Kojuri J, Pasalar P, Soleimani M, Hosein Khani S, Ebrahimi M, Nikneghad H, Karimian Z, Lotfi F, **Shahabi S**, Saadat I, Dehghani MR, Mohagheghi MA, Adibi P, Lankarani KB. Assessment of scientific thinking in basic science in the Iranian Second National Olympiad. *BMC Res Notes.* 2012 Jan 23;5(1):61.
16. Jafari Khatailou Y, Delirezh N, Farshid AA, Zafarshamspoor S, **Shahabi S***. Effect of L-glutamine on fasting blood sugar and pathological lesions of autoimmune diabetes in male C57BL/6 mice. *Urmia Medical Journal.* 2012;23 (2), 133-140 (Article in Persian).
*corresponding Author

17. Mazloomi E, Jazani NH, Sohrabpour M, Ilkhanizadeh B, **Shahabi S***. Synergistic effects of glutamine and ciprofloxacin in reduction of *Pseudomonas aeruginosa*-induced septic shock severity. *Int Immunopharmacol*. 2011 Dec;11(12):2214-9.
*corresponding Author
18. Jazani NH, **Shahabi S**, Shishavan MM, Ilkhanizadeh B, Mazloomi E, Sohrabpour M. Evaluation of the role of carbenoxolone disodium salt in reduction of systemic inflammation induced by *S. Typhimurium* LPS in a mouse model. *Inflammation Research* 2011;60: 154-154. (Article in Persian).
19. Zare A, Hajhashemi M, Hassan ZM, Zarrin S, Pourpak Z, Moin M, Salarilak S, Masudi S, **Shahabi S***. Effect of Ramadan fasting on serum heat shock protein 70 and serum lipid profile. *Singapore Medical Journal*. 2011 Jul;52(7):491-5.
*corresponding Author
20. Jazani NH, Karimzad M, **Shahabi S***. Gp96 rich lysate as a vaccine candidate against infection with *Salmonella typhimurium*. *Iranian Journal of Microbiology*. 2010; 2(4):172-177.
21. Farahnaz Noroozinia, Gholamreza Behjati, **Shahabi S**, Hamidreza Farrokh Islamlo, Zuhair Mohammad Hassan, Behrouz Ilkhanizadeh. Fractal Study on Nuclear Boundary of Cancer Cells in Urinary Smears. *Iranian Journal of Pathology*. 2011; 6(2):63-67.
22. Jazani NH, Parsania S, Sohrabpour M, Mazloomi E, Karimzad M, **Shahabi S***. Naloxone and alum synergistically augment adjuvant activities of each other in a mouse vaccine model of *Salmonella typhimurium* infection. *Immunobiology*. 2010 Oct 27. [Epub ahead of print]
*corresponding Author
23. Jazani NH, Sohrabpour M, Mazloomi E, **Shahabi S***. A novel adjuvant, a mixture of alum and the general opioid antagonist naloxone, elicits both humoral and cellular immune responses for heat-killed *Salmonella typhimurium* vaccine. *FEMS Immunology and Medical Microbiology*. 2011 Feb;61(1):54-62.
*corresponding Author
24. Jazani NH, Karimzad M, Mazloomi E, Sohrabpour M, Hassan ZM, Ghasemnejad H, Roshan-Milani S, **Shahabi S***. Evaluation of the adjuvant activity of naloxone, an opioid receptor antagonist, in combination with heat-killed *Listeria monocytogenes* vaccine. *Microbes and Infections*. 2010 May;12(5):382-8.
*corresponding Author

25. Hassan AT, Hassan ZM, Moazzeni SM, Mostafaie A, **Shahabi S**, Ebtekar M, Hashemi SM. Naloxone can improve the anti-tumor immunity by reducing the CD4(+)CD25(+)Foxp3(+) regulatory T cells in BALB/c mice. *Int Immunopharmacology*. 2009 Nov;9(12):1381-6.
26. Neda Karimi, Zuhair Muhammad Hassan, Morteza Behnam Rasuli, Behrouz Ilkhanizadeh, Shaker Salarilak, **Shahabi S***. The role of endogenous opioids in the protective effects of local sublethal hyperthermia against the progression of burn injury. *Journal of Thermal Biology*. 2009, 34: 286–289
*corresponding Author
27. **Shahabi S***, Zuhair Muhammad Hassan, Nima Hosseini Jazani. Post heat shock tolerance: a neuroimmunological anti-inflammatory phenomenon. *Journal of Inflammation (Lond)*. 2009 Mar 27;6:7.
*corresponding Author
28. Abbas Jamali, Mehdi Mahdavi, Zuhair Muhammad Hassan, Farzaneh Sabahi, Mohammad Jazayeri Farsani, Taravat Bamdad, Hoorieh Soleimanjahi, Morteza Motazakker, **Shahabi S***. A novel adjuvant, the general opioid antagonist naloxone, elicits a robust cellular immune response for a DNA vaccine. *International Immunology*. 2009 Jan 27. 2009 Mar;21(3):217-25.
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29. Ahad Zare, Parvaneh Farzaneh, Zahra Pourpak, Fatemeh Zahedi, Mostafa Moin, **Shahabi S**, Zuhair M. Hassan. Purified Aged Garlic Extract Attenuates Allergic Airway Inflammation in Balb/c Mice. *Iran J Allergy Asthma Immunol*. 2008 Sep;7(3):133-41.
30. Seyed Mahmoud Hashemi, Zuhair M. Hassan, Sara Soudi, **Shahabi S**. The effect of vaccination with the lysate of heat-shocked tumor cells on nitric oxide production in BALB/c mice with fibrosarcoma tumor. *Cell Biol Int*. 2008 Jul;32(7):835-40.
31. **Shahabi S***, Zuhair Muhammad Hassan, Mehdi Mahdavi, Mahya Dezfouli, Monireh Torabi Rahvar, Mohsen Naseri, Nima Hosseini Jazani, Hamid Reza Khalkhali. Hot and Cold Natures and some Parameters of Neuroendocrine and Immune Systems in Traditional Iranian Medicine: a Preliminary Study. *Journal of Alternative and Complementary Medicine* 2008 Mar;14(2):147-56.
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32. **Shahabi S***, Rasmi Y, Jazani NH, Hassan ZM. Protective effects of Helicobacter pylori against gastroesophageal reflux disease may be due to a neuroimmunological anti-inflammatory mechanism. *Immunology and Cell Biology*, 2008 Feb;86(2):175-8.
**corresponding Author*
33. Hashemi SM, Hassan ZM, Soudi S, Ghazanfari T, Kheirandish M, **Shahabi S**. Evaluation of anti-tumor effects of tumor cell lysate enriched by HSP-70 against fibrosarcoma tumor in BALB/c mice. *International Immunopharmacology*, 2007; 7(7): 920-927
34. Jamali A, Mahdavi M, **Shahabi S***, Hassan ZM, Sabahi F, Javan M, Farsani MJ, Parsania M, Bamdad T. Naloxone, an opioid receptor antagonist, enhances induction of protective immunity against HSV-1 infection in BALB/c mice. *Microbial Pathogenesis* 2007 Nov-Dec;43(5-6):217-23.
**corresponding Author*
35. NimaHosseiniJazani, MinooZartoshti, **Shahram Shahabi**. Antibacterial Effects of Iranian Cuminumcyminum Essential Oil on Burn Isolates of Pseudomonas aeruginosa. *International journal of Pharmacology*, 2008, 4(2): 157:159.
36. **Shahabi S***, Hassan ZM, Jazani NH, Ebtekar M. Environmental Factors can Modify Genotype Risks by Slight Changes in Protein Conformation: The Role of Water. *Hypothesis*, 2007; 5(1): 7-14
37. Jazani NH, Zartoshti M, **Shahabi S**, Yekta Z, Nateghi S. Evaluation of the Synergetic Effects of Water Soluble Extracts of Green Tea (*Camellia Sinensis*) on the Activity of Ciprofloxacin in Urinary Isolated *E. Coli*. *Journal of Biological Sciences* 7(8):1500-1503, 2007.
38. Jazani NH, **Shahabi S**, Ali AA, Zarrin S, Daie NA. In vitro antibacterial activity of garlic against burn isolated strains of Acinetobacter spp. *Journal of Biological Sciences* 7(5):819-822, 2007.
39. Yekta Z, Porali R, Taravati MR, **Shahabi S**, Salary Sh, Khalily F, Farzin A. Immune response to measles vaccine after mass vaccination campaign in Urmia population – Iran. *Eastern Mediterranean Health Journal*. 2007 (In Press)

40. Yekta Z, Porali R, Taravati MR, Salary Sh, Khalily F, **Shahabi S**. Measles IgG sero-prevalence and its attributable factors in 5–25-year-old cases prior mass vaccination campaign in Urmia, Iran. *Iranian Red Crescent Medical Journal*, 2007; 9(1):28-35
41. Jazani NH, **Shahabi S**, Ali AA, Zartoshti M. Antibacterial effects of water soluble green tea extracts on multi-antibiotic resistant isolates of *Acinetobacter* sp. *Pakistan Journal of Biological Sciences* 2007; 10(9): 1477-1480
42. Jazani NH, **Shahabi S**, Ali AA. Antibacterial effects of water-soluble green tea extracts on multi-antibiotic resistant isolates of *Pseudomonas aeruginosa*. *Pakistan Journal of Biological Sciences* 2007; 10(9): 1544-1546.
43. **Shahabi S***, Hashemi M, Hassan ZM, Javan M, Bathaie SZ, Toraihi T, Zakeri Z, Ilkhanizadeh B, Jazani NH. The effect of post-burn local hyperthermia on the reducing burn injury: The possible role of opioids. *International Journal of Hyperthermia*, August 2006; 22(5): 421–431
*corresponding Author
44. **Shahabi S***, Hassan ZM, Jazani NH, Ebtekar M. Sympathetic nervous system plays an important role in the relationship between immune mediated diseases. *Medical Hypotheses* 2006;67(4):900-3
*corresponding Author
45. **Shahabi S***, Hassan ZM, Jazani NH. Any beneficial effects of mycobacteria on multiple sclerosis and experimental autoimmune encephalitis may include stimulation of the sympathetic nervous system. *Medical Hypotheses* 2006;67(1):164-8
46. Shahrokhi S, Hassan ZM, Mohagheghi MA, Ghazanfari T, Askarian S, Sheikhan A, Ebtekar M, **Shahabi S**. The effect of shark cartilage on the modulation of cytokine responses in invasive ductal carcinoma of breast cancer patients. *Recent Advances and Research Updates Vol. 7, No.1, January 2006*.
47. Shahrokhi S, Hassan ZM, Mohagheghi MA, Ghazanfari T, Mohagheghi SM, **Shahabi S**. The effect of shark cartilage extract on lymphocyte proliferation of breast cancer patients. *DANESHVAR MEDICINE* 2006; 13(63):60-53. (Article in Persian)
48. Jazani NH, Worobec E, **Shahabi S**, Nejad GB. Conjugation of tetanus toxoid with *Salmonella typhimurium* PTCC 1735 O-specific polysaccharide and its effects on production of opsonizing antibodies in a mouse model. *Canadian Journal of Microbiology* Vol. 51, 2005

49. **Shahabi S**, Hassan Z.M, Hashemi S.M, Shahrokhi S., Karimipour M., KazemNejad A., Bathaie S.Z., Tarihi T. Hyperthermia Can Accelerate the Healing Process of 2nd Degree Burn Wounds. *Journal of Kerman University of Medical Sciences*, 2005; 12(2):110-118 [Article in Persian].
50. Hassan ZM, Feyzi R, Sheikhan A, Bargahi A, Mostafaie A, Mansouri K, Shahrokhi S, Ghazanfari T, **Shahabi S**. Low molecular weight fraction of shark cartilage can modulate immune responses and abolish angiogenesis. *International Immunopharmacology*. 2005 Jun;5(6):961-70
51. Pourpak Z., Mesdaghi M., Zarinara A.R., **Shahabi S**, Kazemnejad Anoushiravan, KouhKan A., Kardag G.H.A. A cross-sectional study of latex allergy among operation room staff of hospitals of Tehran University of Medical Sciences, 1380-1381. *Iranian Journal of Dermatology* 2004; 7(4):219-230. (Article in Persian).