

Curriculum Vitae

Personal Information:

Name: Hadi hassannia



Qualifications:

- B.Sc. (2006-2008), Medical Laboratory Sciences, Faculty of Para Medicine, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.
- M.Sc. (2009-2011), Medical Immunology, Department of Immunology, School of Medicine, Mazandaran University of Medical Sciences, Mazandaran, Iran.
- Ph.D. (2012-2017), Medical Immunology, Department of Immunology, School of Public Health; Tehran University of Medical Sciences, Tehran, Iran.

Current Position:

- Amol Faculty of Paramedical Sciences, Mazandaran University of Medical Sciences, Sari, Iran.
- Immunogenetic Research Center, Faculty of Medicine, Mazandaran University of Medical Sciences, Sari, Iran.

Publication (until 2018):

a) Papers

1. **Hassannia H**, Amiri MM, Nazari B, Jadidi-Niaragh F, Hosseini-Ghatar R, Khoshnoodi J, et al. Inhibition of tumor growth by mouse ROR1 specific antibody in a syngeneic mouse tumor model. *Immunology Letters*. 2018;193:35-41.
2. Ghalamfarsa G, Rastegari A, Atyabi F, **Hassannia H**, Hojjat-Farsangi M, et al. Anti-angiogenic effects of CD73-specific siRNA-loaded nanoparticles in breast cancer-bearing mice. *J Cell Physiol*. 2018
3. Mansour RN, Barati G, Soleimani M, Ghoraeian P, Nouri Aleagha M, Kehtari M, Mahboudi H, Hosseini F, **Hassannia H**, et al. Generation of high-yield insulin producing cells from

- human-induced pluripotent stem cells on polyethersulfone nanofibrous scaffold. *Artif Cells Nanomed Biotechnol.* 2018 Feb 12:1-7.
4. Hosseini F, Mahdian-Shakib A, Jadidi-Niaragh F, Enderami SE, **Hassannia H**. Anti-inflammatory and anti-tumor effects of α -L-galuronic acid (G2013) on cancer-related inflammation in a murine breast cancer model. *Biomedicine & Pharmacotherapy.* 2018;94:793-800.
 5. Hemmati A, **Hassannia H**, Milani S, Hadavi R, Ghaemimanesh F, Rabbani H, et al. Detecting Receptor Tyrosine Kinase ROR1 Using a Developed anti-ROR1 Polyclonal Antibody. *Monoclonal Antibodies in Immunodiagnosis and Immunotherapy.* 2018;37(1):38-44.
 6. Hosseini Ghatar R, Soltantoyeh T, Bahadori T, Golara M, **Hassannia H**, Khosravi Eghbal R, et al. Epitope Mapping of Human HER2 Specific Mouse Monoclonal Antibodies Using Recombinant Extracellular Subdomains. *Asian Pacific Journal of Cancer Prevention.* 2017; 3103-3110.
 7. Shahrezaie M, Mansour RN, Nazari B, **Hassannia H**, Hosseini F, Mahboudi H, et al. Improved stem cell therapy of spinal cord injury using GDNF-overexpressed bone marrow stem cells in a rat model. *Biologicals.* 2017; 73-80.
 8. Hosseini F, **Hassannia H**, Mahdian-Shakib A, Jadidi-Niaragh F, Enderami SE, Fattahi M, et al. Targeting of crosstalk between tumor and tumor microenvironment by β -D mannuronic acid (M2000) in murine breast cancer model. *Cancer Medicine.* 2017;6(3):640-50.
 9. Jadidi-Niaragh F, Atyabi F, Rastegari A, Kheshtchin N, Arab S, **Hassannia H**, et al. CD73 specific siRNA loaded chitosan lactate nanoparticles potentiate the antitumor effect of a dendritic cell vaccine in 4T1 breast cancer bearing mice. *Journal of Controlled Release.* 2017;246:46-59.
 10. Izadi M, Esfahani AA, **Hassannia H**, Jafari NJ, Najarkolaei FR, Rezaee-Zavareh MS. Seroprevalence of hepatitis A virus among Iranian soldiers. *Gastroenterology and Hepatology from bed to bench.* 2016;9(2):100.
 11. Jadidi-Niaragh F, Atyabi F, Rastegari A, Mollarazi E, Kiani M, Razavi A, **Hassannia H**, et al. Downregulation of CD73 in 4T1 breast cancer cells through siRNA-loaded chitosan-lactate nanoparticles. *Tumor Biology.* 2016;37(6):8403-12.
 12. Bayat AA, Ghods R, Shabani M, Mahmoudi AR, Yeganeh O, **Hassannia H**, et al. Production and characterization of monoclonal antibodies against human prostate specific antigen. *Avicenna journal of medical biotechnology.* 2015;7(1):2.
 13. Yazdani Y, Mohammadnia-Afrouzi M, Yousefi M, Anvari E, Ghalamfarsa G, **Hasannia H**, et al. Myeloid-derived suppressor cells in B cell malignancies. *Tumor Biology.* 2015;36(10):7339-53.
 14. **Hassannia H**, Abediankenari S, Ghaffari J. FOXP3 and TGF- β gene polymorphisms in allergic rhinitis. *Iranian Journal of Immunology.* 2011;8(4):218-25.
 15. **Hassannia H**, Abediankenari S, Ghaffari J, Rafiei A, Yazdani J, Jeivad F, et al. Association between T Cell Immunoglobulin and Mucin Domain-1 Gene Polymorphisms with Allergic Rhinitis. *Journal of Mazandaran University of Medical Sciences.* 2011;21(85):2-8.

16. Ghaheri A, Rezaee M, **Hasannia H**, Nasrolahi M, Parsaee M, Ahanjan M. Interferon-Gamma gene polymorphism in patients with tuberculosis. *Medical Laboratory Journal*. 2011;5(1):18-23.
17. Jeivad F, Abediankenari S, Shokrzadeh M, Ghasemi M, Taghvaei T, Ansari Z, **Hassannia H**, et al. Tyrosine kinase domain gene polymorphism of epidermal growth factor receptor in gastric cancer in northern Iran. *Tehran University of Medical Sciences*. 2012;69(10).
18. Rahimi-Esboei B, Gholami S, Ghorbani Pasha Kolaei A, Pour Haji Baqer M, **Hasannia H**, Shaban R, et al. Laboratories Performance after Outsourcing in the Hospitals of Shahid Beheshti University of Medical Sciences. *Medical Laboratory Journal*. 2013;7(2):37-41.
19. Rahimi eb, gholami s, ghorbani pka, pour hbm, **Hasannia H**, shaban r, et al. the prevalence of intestinal parasitic infections among the people living in the central areas of mazandaran province (2009-2010). 2013.
20. Beiranvand E, Konari SA, Beiranvand B, **Hasannia H**. Monocyte isolation using serum dextrose 5% with autologous plasma. *Bimonthly Journal of Hormozgan University of Medical Sciences*. 2013;16(6):429-35.
21. Abedian S, Yousefzadeh Y, **Hasannia H**. Differentiated Dendritic Cell with TGF β in Reaction with TCD4+. *Journal of Guilan University of Medical Sciences*. 2011;20(77):1-7.

b) Book

- Co-author of book "From Genes to Genomes: Concepts and Applications of DNA Technology", Jeremy W. Persian Translation. ISBN: 4336753. 2016, Sina Teb Press.

Presentation in Congresses:

1. Jeivad F, Abediankenari S, Shokrzadeh M, Ghasemi M, Taghvaei T, Ansari Z, **Hassannia H**, et al. Mutational Analysis of EGFR Gene by PCR-SSCP. 11th International Congress of Immunology and Allergy. 26-29 April 2012 (*Poster Presentation*).
2. **Hassannia H**, Abedian S, Ghaffari J. Genetic Association Study of FOXP3 gene polymorphisms in Allergic Rhinitis and Serum Immunoglobulin Levels. 1st International congress on "Cellular & Molecular Advances in Non-Contagious Disease". 16-18 May 2011 (*Poster Presentation*).
3. **Hassannia H**, Ajami A, Nowroozpoor dailami. Aqueous humor and sera levels of soluble MICA and MICB in Cataract and Glaucoma patients. 11th International Congress of Immunology and Allergy. 26-29 April 2012 (*Poster Presentation*).
4. **Hassannia H**, Abedian S, Ghaffari J. Genetic Association Study of TGF- β gene Polymorphisms with Allergic Rhinitis. 11th International Congress of Immunology and Allergy. 26-29 April 2012 (*Poster Presentation*).

5. **Hassannia H**, Abedian S, Ghaffari J. Immunological Association between Antioxidant Trace Elements and Susceptibility to Allergic Rhinitis. 4th International Congress of Biochemistry and Molecular Biology (*Oral Presentation*).
6. **Hassannia H**, Abedian S. TNF- α and CpG motif as the best maturation factors in the dendritic cell differentiation. The 1st International Student Congress on Cellular & Molecular Medicine. 17-19 Feb 2011 (*Poster Presentation*).
7. **Hassannia H**, Abedian S, Ghaffari J. Association between TIM-1 Gene Polymorphisms with Allergic Rhinitis and Serum Immunoglobulin Levels. The 1st International Student Congress on Cellular & Molecular Medicine. 17-19 Feb 2011 (*Poster Presentation*).
8. Beiranvand E, Konari SA, Beiranvand B, **Hasannia H**. Comparison between Media Supplemented with RPMI-1640 and serum dexterosus in isolation of Monocyte and Macrophages. The 2st Annual Student-Research congress of Mazandaran University of Medical Sciences-Sari-Iran 7-9 Feb 2011 (*Oral Presentation*).
9. **Hasannia H**, Abedian S. Association between TIM-1 Gene Polymorphisms with Allergic Rhinitis and Serum Immunoglobulin Levels. The 2st Annual Student-Research congress of Mazandaran University of Medical Sciences-Sari-Iran 7-9 Feb 2011 (*Recognized as the best oral Presentation*).
10. Beiranvand E, Konari SA, Beiranvand B, **Hasannia H**. FOXP3 gene polymorphism in the TB patients. 4st Congress of Laboratory & Clinic. 21-23 Dec 2011 (*Poster Presentation*).
11. Beiranvand E, Konari SA, Beiranvand B, **Hasannia H**. Genetic frequency of IFN- γ R1 mutation in Tuberculosis patient. The 4st International Congress on Quality Improvement in Clinical Laboratories. 20-23 April 2011 (*Poster Presentation*).
12. **Hassannia H**, Abedian S, Shadman M. Prevalence of Celiac Disease in Patients with Recurrent Abdominal Pain Referred to the Medical Center in Tooba, Sari. 11th International Congress of Immunology and Allergy. 26-29 April 2012 (*Poster Presentation*).
13. Rahimi-Esboei B, Gholami S, Ghorbani Pasha Kolaei A, Pour Haji Baqer M, **Hasannia H**. In vitro Effectiveness of Sambucus Ebulus Methanolic Extract on scolices of Hydatid Cyst. 5th Iranian Congress of Clinical Microbiology. November 8-10, 2011 (*Poster Presentation*).
14. Rahimi-Esboei B, Gholami S, Ghorbani Pasha Kolaei A, Pour Haji Baqer M, **Hasannia H**. Serological evaluation of Toxoplasma Gondii in women of sari, north of Iran. 11th International Congress of Immunology and Allergy. 26-29 April 2012 (*Poster Presentation*).
15. Shaghayegh Emami, Mahdi Shabani, Samira Shakeri, Reza Hadavi, Farhad Khosravi, **Hadi Hassannia**, et al. A new murine monoclonal antibody for screening of human epidermal growth factor receptor-2 (HER2) in breast cancer patients. 12th Iranian Congress of Immunology and Allergy. 29th April-2nd May, 2014- Tehran, Iran (*Poster Presentation*).

16. Azam Hemmati, **Hadi Hassannia**, Sepide Babaei, et al. Detecting Receptor Tyrosine Kinase ROR1 Using a Novel anti-ROR1 Polyclonal Antibody. 8th International Iranian Congress of Laboratory and Clinic. 6-8th Febrary, 2016- Tehran, Iran (*Poster Presentation*).
17. Hosseini F, **Hassannia H**, Ghasemian M. Evaluation of Serum Concentration Level of the Vitamin D in the Breast Cancer Patients. 8th International Tehran Breast Cancer Congress. 28-30 Oct 2015 (*Poster Presentation*).
18. Hosseini F, **Hassannia H**, Mahdian-Shakib A, Jadidi-Niaragh F, Enderami SE, Fattahi M, et al. Preclinical toxicity assessment of β -D-mannuronic acid as a novel anti-inflammatory drug. Second International Congress of Nephrology & Urology. 1-4 Aug 2016 (*Poster Presentation*).
19. Hosseini F, **Hassannia H**, Mahdian-Shakib A, Jadidi-Niaragh F, et al. Suppression of matrix metalloproteinases -2 and -9 in murine breast cancer cell line by β -d-mannuronic acid. 13th International Congress of Immunology & Allergy of Iran. 26th- 29th April, 2016 (*Poster Presentation*).
20. Hosseini F, **Hassannia H**, Abedian S, et al. Serological evaluation of Helicobacter pylori infection in patients with abdominal pain. 7th International congress of laboratory and clinic and Clinic, and the First Conference of Clinical Virology. 12th-14th Feberury 2015 (*Poster Presentation*).
21. Hosseini F, **Hassannia H**, Mahdian-Shakib A, et al. Evaluation of prostate-specific antigen in men with urology problems. Second International Congress of Nephrology & Urology. 1-4 Aug 2016 (*Poster Presentation*).
22. Hosseini F, **Hassannia H**, Mahdian-Shakib A, et al. Targeting of crosstalk between tumor and tumor microenvironment by β -D mannuronic acid (M2000) in murine breast cancer model. 1st International Congress of IAP's Iranian division with focus on recent updates in Prevention, Diagnosis & Treatment of Breast Cancer (*Poster Presentation*).
23. Hosseini F, Mahdian-Shakib A, **Hassannia H**, et al. Suppression of matrix metalloproteinases-2 and -9 in murine breast cancer cell line by β -d-mannuronic acid. 1st International Congress of IAP's Iranian division with focus on recent updates in Prevention, Diagnosis & Treatment of Breast Cancer (*Poster Presentation*).
24. Mahdian-Shakib A, **Hassannia H**, Hosseini F, et al. Antitumoral and antimetastatic effects of guluronate in murine breast cancer model. 1st International Congress of IAP's Iranian division with focus on recent updates in Prevention,Diagnosis & Treatment of Breast Cancer (*Poster Presentation*).
25. Hosseini F, **Hassannia H**, Ghasemian M. Correlation between the sera levels of tumor markers in Patients with hepatitis B and C. 8th APOCP Regional Conference, Cancer Control in West Asia. 1–3 November 2015 (*Oral Presentation*).
26. **Hosseini F**, Hassannia H, Kohkhaei. Investigation of anti-tumor and anti-metastasis effects of beta-d-mannuronate in murine breast cancer model. The Third Annual Research

Congress of Semnan University of Medical Sciences. 2017 (***Recognized as the best oral Presentation***).

27. Hosseini F, **Hassannia H**, Kohkhaei. Active immunotherapy for breast cancer: going toward to overcome immune ignorance and tolerance. The Third Annual Research Congress of Semnan University of Medical Sciences. 2017 (***Poster Presentation***).
28. Hosseini F, **Hassannia H**, Kohkhaei. Preclinical toxicity assessment of b-D-mannuronic acid as a novel anti-inflammatory drug. The Third Annual Research Congress of Semnan University of Medical Sciences. 2017 (***Poster Presentation***).
29. Mahdian-Shakib A, **Hassannia H**, Hosseini F, et al. Antitumoral and antimetastatic effects of guluronate in murine breast cancer model. 4st Congress on Novel & Innovative Laboratory Technologies. 26-28 October 2016 (***Poster Presentation***).
30. **Hassannia H**, Hosseini F. Investigation of anti-tumor and anti-inflammatory effects of Nigella sativa on 4T1 and CT26 cell lines. 14th International Congress of Immunology and Allergy. April 26-28, 2018 (***Poster Presentation***).
31. **Hassannia H**, Amiri MM, Nazari B, Jadidi-Niaragh F, Hosseini-Ghatar R, Khoshnoodi J, et al. Inhibition of tumor growth by mouse ROR1 specific antibody in a syngeneic mouse tumor model. 14th International Congress of Immunology and Allergy. April 26-28, 2018 (***Oral Presentation***).

Technical Skills:

- 1) Genetic engineering and manipulating proteins
- 2) Construction, expression and purification of Fc fusion and recombinant proteins in eukaryotic host
- 3) Polyclonal and monoclonal antibodies production
- 4) Chimerization and humanization monoclonal antibodies
- 5) Immunological-based techniques such as Flow cytometry, SDS-PAGE Western Blotting, several types of electrophoresis & affinity chromatography, IFA, ICC, IHC and ELISA
- 6) Proliferation assay, XTT and LTT Assay
- 7) Molecular-based techniques like DNA and RNA extraction from Blood, Tissues and Cell lines, PCR, Agarose Gel Electrophoresis and Real time PCR.
- 8) Immunoinformatic software and web based molecular modeling
- 9) Gene transfection
- 10) Handling of laboratory animals such as bleeding, immunization and tumor induction
- 11) Industrial scale production of antibody and recombinant proteins

Work Experiences

- ❖ Lab Technician in diagnostic laboratories of several governmental hospitals (Hormone, serology, hematology, chemistry, urinalysis, and blood bank) 2009-2017

Principal research interests:

- ❖ Cancer vaccine, immunotherapy, cancer-related inflammation, cancer animal models, tumor metastasis