**Resume**

**First Name:** Vida

**Last Name:** Homayouni

**Gender/Marital Status:** female/married/1 child

**Date/Place of Birth:** July 16, 1976. Isfahan, Iran

**Academic Rank:** Ph.D

**Address:** Immunodeficiency research center, Faculty of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran.

**Telephone:** +98-313-6206266

**Mobile:** +98-913-367-7418

**E-mail:** [vidahoma2015@gmail.com](mailto:vidahoma2015@gmail.com)

* **Job Title:**
* Research associate in immunodeficiency research center, Isfahan University of Medical Sciences, Isfahan, Iran. 2017.
* Head of Immunology and Flow cytometry Department of Private Laboratory
* **Educations: Academic Preparations:**
* **B.Sc.** Microbiology, Islamic Azad University of Felavarjan, Iran (1998)
* **M.Sc.** Immunology, Isfahan University of Medical Sciences, Isfahan, Iran (2001-2005)
* **Ph.D**. Immunology, Isfahan University of Medical Sciences, Isfahan, Iran. (2010-2016)

* **M.Sc. Thesis:**
* Evaluation of hemolytic disease of newborn in artificial model using anti-D and anti- fetal hemoglobin antibody by flow cytometry.2005.

**Supervisors:** Dr. Abassali Pourazar, Dr. Abbas Rezaei

**Advisors:** Dr. Alireza Andalib and Farzad Oreizi

Isfahan University of Medical Sciences, Isfahan, Iran 2004.

* **PhD Thesis:**
* Determination of optimized condition for production of nanobody against Tim-3 using phage display technology.2016

**Supervisors:** Dr. Abbas Rezaei, Dr.Mazdak Ganjalikhani hakemi,

**Advisors:** Dr.Mahdi Behdani.

Isfahan University of Medical Sciences, Isfahan, Iran.

* **Publications**
* **Articles:**

1. The Assessment of Feto-Maternal Hemorrhage in an Artificial Model Using Anti-D and Anti-Fetal Hemoglobin Antibody by Flow Cytometry. Abassali Pourazar,Vida Homayouni, Abbas Rezaei, Alireza Andalib and Farzad Oreizi . IBJ. Tehran, Iran. 12 (1): 43-8, 2008.
2. The Effect of BMP-6 Growth Factor on Differentiation of Adipose-derived Stem Cells into Chondrocyte in Pellet Culture System. Hashemibeni, Batool; Razavi, Shahnaz; Esfandiary, Ebrahim; Salehi, Mansour; Karbasi, Saeed; Mardani, Mohammad; Nadali, Fateme; Sadeghi, Farzaneh; Sabahi, Abdolreza; Amuzegar, Fatemeh; Homayuni, Vida. Journal of Isfahan Medical School.2009
3. Effect of the Sera of Patients with Multiple Sclerosis on Apoptosis and Nitric Oxide Production of Endothelial Cell. Haghjooy Javanmard Sh., Dana N., Saadatnia M., Maghzi A.H., Homayouni V., Etemadifar M., Minagar A., Naji Esfahani H. Journal of Kerman University of Medical Science. 19(6): 520-30, 2012. (Persian)
4. Interferon-beta-1b protects against multiple sclerosis-induced endothelial cells apoptosis. Haghjooy Javanmard Sh. and [Vida Homayouni](http://europepmc.org/search/?scope=fulltext&page=1&query=AUTH:%22Homayouni%20V%22). Frontiers in Bioscience. Elite 4: 1368-1374, 2012 Jan.
5. Circulating endothelial cells (CECs) and E-selectin: Predictors of preeclampsia. Ferdous Mehrabian,Sayed Mohammad Hashemi Jazi, [Shaghayegh Haghjooy Javanmard](http://europepmc.org/search/?scope=fulltext&page=1&query=AUTH:%22Javanmard%20SH%22), [Mahshid Kaviani](http://europepmc.org/search/?scope=fulltext&page=1&query=AUTH:%22Kaviani%20M%22),and [Vida Homayouni](http://europepmc.org/search/?scope=fulltext&page=1&query=AUTH:%22Homayouni%20V%22) .Journal of Research in Medical Sciences. Academic Journal monitor. 17(1): 15-21, 2012 Jan.
6. RORC2 Gene Silencing in Human Th17 Cells by siRNA: Design and Evaluation of Highly Efficient siRNA. Mazdak Ganjalikhani Hakemi,Kamran Ghaedi,Alireza Andalib,Vida Homayouni, Mohsen Hosseini and Abbas Rezaei. Avicenna Journal of Medical Biotechnology. 5 (1): 10-19, 2013.
7. Genetic defects and the role of helper T cells in immunopathogenesis of Common variable immunodeficiency. Reza Yazdani, Mazdak Ganjalikhani Hakemi, [Roya Sherkat](http://www.advbiores.net/searchresult.asp?search=&author=Roya+Sherkat&journal=Y&but_search=Search&entries=10&pg=1&s=0), [Vida Homayouni](http://www.advbiores.net/searchresult.asp?search=&author=Vida+Homayouni&journal=Y&but_search=Search&entries=10&pg=1&s=0), [Rahim Farahani](http://www.advbiores.net/searchresult.asp?search=&author=Rahim+Farahani&journal=Y&but_search=Search&entries=10&pg=1&s=0). Accepted at June Advanced Biomedical Research. (ABR). 2013. Vol 3 (2).
8. Silencing of RORC2 in Th17 cells: could we look at this as a new therapeutic target? Mazdak Ganjalikhani Hakemi,Kamran Ghaedi,Alireza Andalib,Vida Homayouni, Mohsen Hosseini and Abbas Rezaei. Accepted at Aug. Cell Journal. 2013. Vol 16 (3).
9. Evaluation of the newly identified helper T cell subtypes cytokines and innate lymphoid cells (ILC) as new players in the immunopathogenesis of asthma. Roya sherkat,Reza yazdani,Mazdak ganjalikhani hakemi,Vida homayouni ,Abbas Rezaei .jan 2014.ABR.
10. Investigating of microsatellites instability in patients with hereditary non-polyposis colorectal cancer in Isfahan. Vida Homayouni, Mansour Salehi, and Mohammad Kazemi. 2014. Advanced Biomedical Research (ABR).
11. Producing Recombinant HEK293 T-cells with High Expression of T-cell Immunoglobulin and Mucin Domain-3 (Tim3) Protein. Moballegh Naseri Mona, Khanahmad Hossein, Homayouni Vida, Ganjalikhani Hakemi Mazdak, Salehi Mansour. I.U.M.S. 2014.
12. 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.2012.
13. Development of a stable cell line, overexpressing human T cell immunoglobulin mucin1. Mina Ebrahimi,Tohid Kazemi ,Mazdak Ganjalikhani-hakemi ,Jafar Majidi,Hossein khanahmad ,Ilnaz Rahimmanesh ,Vida Homayouni .IJB. 2015. `
14. Stimulation of camel polyclonal antibody against human Tcell immunoglobulin and mucin 3. Vida Homayouni, Hossein Khanahmad , Mazdak Ganjalikhani hakemi, Pouria Ghasemi, Mahdi Behdani, Abbas Rezaei. IJB. 2017.
15. Preparation and Characterization of a novel nanobody against T-cell immunoglobulin and mucin-3 (TIM-3).Vida Homayouni,Mazdak Ganjalikhani hakemi,Abbas Rezaei,Hossein Khanahmad,Mahdi Behdani, Fatemeh Kazemi Lomedasht. IJBMS journal. 2016.

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1. Decreased Expression of B cell Maturation Antigen (BCMA) in Patients with Common Variable Immunodeficiency (CVID). Mahbubeh Ansari, Reza Yazdani, Roya Sherkat, Vida Homayouni , Mazdak Ganjalikhani Hakemi, Abbas Rezaei. Pediatric Allergy, Immunology and Pulmonology. 2017
2. Silencing of Tim-3 expression by miR- 326 affects apoptosis and proliferation of human HL- 60 leukemia cell line. Maryam Mohammad Ganji, Mazdak Ganjalikhani Hakemi, Vida Homayouni, Abbas Rezaei. International Journal of Hematology and Oncology. 2018.
3. Positive and Negative regulation of Th17 Cell differentiation : Evaluating the impact of RORC2. Mazdak Ganjalikhani Hakemi,Kamran ghaedi, Vida Homayouni, Alireza Andalib, Mohsen Hosseini,Abbas Rezaei.Cell journal.2014.
4. Evaluation of Silencing Effect of miR-133a-5p Mimic on TIM-3 Expression in AML (HL-60) Cell Line. Zohreh Hojati1, Mazdak Ganjalikhani-Hakemi, Mahnaz Ameri,   
   SeyedehFatemehAlimohammadi-Jelodar1,MoeinDehbashi, Maryam Mohammad Ganji, Vida Homayouni, Hossein Khanahmad. 2019. Ind J Clin Biochem.
5. Evaluation of the effect of TIM-3 suppression by miR-498 and its effect on apoptosis and proliferation rate of HL-60 cell line. Yaser Moghaddam, Alireza Andalib , Maryam Mohammad-Ganji , Vida Homayouni , Mohammadreza Sharifi , Mazdak Ganjalikhani-Hakemi. 2018. Pathol Res Pract.
6. The +4259A>C polymorphism of TIM-3 but not -1637C>T polymorphism of TIM-1 is associated with Multiple sclerosis in Isfahan population. Masoumeh Pouladian, Mazdak Ganjalikhani Hakemi, Fereshteh Alsahebfosul, Vida Homayouni, Sharifeh Khosravi, Masoud Etemadifar, Fariba Mazrouei, Rasoul Salehi . International Journal of Immunogenetics.
7. The autoinflammatory disorders in center of Iran: A study of clinical and laboratory manifestations of patients with autoinflammatory disorders. Ali Mosayebian, Roya Sherkat, Alireza Rafiei, Sahar Memar montazarin, Elmira Kalantari, Vida Homayouni, Iranian Journal of Allergy, Asthma and Immunology.2021.
8. A comparative study of NK cell phenotype and cytotoxicity between family with high frequency of HBV infection and control group. Vida Homayouni ,Roya sherkat, Mahbube Jafari, Behrooz Atayee, 2022.submitted.
9. TIM-3 Expression Was Inhibited Using Mir-1285 In AML Cell Line. Vida Homayouni1\*, Mazdak GanjaliKhani Hakemi, Maryam Ganji, Roya Sherkat, Hossein Khanahmad.2022.submited.

**Ongoing research project:**

* The Comparison of family members with unexplained RPL (recurrent pregnancy loss) and fertile women in NK cytotoxicity in Isfahan
* Evaluation of Immune checkpoint genes (TIM-3,PD-1) in the severity of covid-19 disease in three groups patients in Isfahan city
* **Books:**
* “CELLULAR AND MOLECULAR IMMUNOLOGY”. Abul K. Abbas, et al. 7th edition. (**Translation**). Hayyan Pub. 2012. (**collaboration**)
* **Teaching Experiences**
* Tuition of Immunology for B.Sc students of Niutrition, Nursing and Operation room. Isfahan University of Medical Sciences. Since 2012.
* Tuition of Flow Cytometry for students in Microbiology. Isfahan University of Medical Sciences. Since 2010.
* Tuition of Immunology for students of Pharmacy. Isfahan University of Medical Sciences. Since 2010.
* Tuition of Flow Cytometry for Ph.D students in Molecular medicine. Isfahan University of Medical Sciences. Since 2013.
* Tuition of Immunology for B.Sc Microbiology. Islamic Azad University of felavarjan. 2012.
* **Professional Experiences**
* Flow cytometry and Flowjo analyses
* Immunophenotyping for immunodeficiency and abortion patients
* LTT test (The lymphocyte transformation test)
* Electrophoresis (Agarose, PAGE & SDS- PAGE)
* Cell culture and cell transfection
* ELISA
* PCR, Nested PCR, RT-PCR
* Gene cloning
* Phage Display and Nanobody production
* NGS-Data analyses

**Certificate:**

**Presentation & Seminars:**

* Nanomedicine Day ,Vancouver, Canada, 2018
* International congress of immunology, Melbourne .Australia.2016.
* 8th International congress of laboratory & clinic/ 1th National congress of basic medical sciences and the knowledge-based production.2016.
* DAAD meeting. Research for rare disease. Munchen. 2018.
* 12th International congress of Immunology & Allergy (ICIA) April 29-2 May.2014.
* 11th International congress of Immunology & Allergy (ICIA). April 26-29.2012.
* 9th International congress of Immunology & Allergy (ICIA). 2008.
* 8th International congress of Immunology & Allergy (ICIA). 2006.

**Attended in**

“ The Selection of Monoclonal antibody by phage display workshop” by venom and bio therapeutics molecules lab.

**Attended in**

“ **VIP clinical NGS Data analysis.**( Linux servers and commands-NGS Piplines and Tools-ACMG-AMP guidelines. Filtering and prioritization-Secondary Findings-Reporting.)

**Vida homayouni:** 2022