

**In the name of God**



**Personal characteristics:**

Name and surname: Hamid Chegni

Date of birth: 2 April 1987

Workplace address: Shahid Beheshti University of Medical Sciences, Faculty of Paramedicine, Darband St., Tajrish, Tehran

Contact number: 00989120818679-00989185450434

Email: [H.chegini2010@yahoo.com](mailto:H.chegini2010@yahoo.com)

**Academic records:**

- Post-doc study opportunity at Istituto Superiore di Sanità, Rome, Italy 2019-2020
- Graduated with a PhD in Medical Immunology - Tarbiat Modares University, Tehran\_ average 2017/82 (year of graduation May 2018)
- Graduated from the master's degree in medical immunology - Mashhad University of Medical Sciences - GPA 18/62 (graduation year: September 2013)
- Graduated from the non-consecutive bachelor's degree in the field of laboratory sciences - Iran University of Medical Sciences - GPA 18.36 (Graduation year: February 2019)
- Graduated from associate degree in laboratory sciences \_ Hamedan University of Medical Sciences \_ grade point average 03/18 (graduation year of February 2016)

**Topic of Master's Thesis: Supervisor Dr. Mahmoud Mahmoudi**

- The immunomodulatory effect of vitamin D3 on the production of inhibitory and pro-inflammatory cytokines in the culture medium (IN VITRO on lymphocytes of patients with systemic lupus erythematosus)

**The topic of PhD Thesis: Dr. Zuhair Mohammad Hassan**

- T cell therapy and immunovaccination of Burkitt's lymphoma using D393-CD20 antigen in NOD mouse model tumorigenic with RAMOS cell line

**Research projects:**

- Use of alfalfa root extract instead of SLO in ASO diagnostic test
- Investigating the antimicrobial effect of alfalfa root extract on the most common sinusitis-causing microbes
- Investigating the antimicrobial effect of alfalfa leaf extract on some Gram-positive and Gram-negative microbes
- Investigating the antimicrobial effect of primula iricolata leaf extract on cholera-causing *Vibrio cholerae*
- A clinical trial of the effect of reciting the Quran on anxiety before craniotomy surgery (surgery on the skull)
- Investigating the effect of alfalfa root extract on dental caries-causing strains and comparing it with chemical mouthwashes.
- T cell therapy of DLBCL lymphoma using D393-CD20 antigen in the nude mouse model induced with tumor tissue
- Modeling based on the behavioral approach of the immune system against cancer cells and simulating in the field of defense
- Investigating the expression of D393-CD20 antigen on the tumor tissue of patients with B-cell lymphoma
- Investigating the effect of D393-CD20 antigen-specific T lymphocytes on blood tissue taken from patients with Burkitt's lymphoma in the environment In Vitro
- Examining the frequency of age and gender and the relationship of ABO blood group with patients who died due to covid-19 in Qom and Tehran provinces.
- Investigation of MHC class I in patients with Covid-19 in Iran and its comparison with frequency in normal population
- A clinical trial to investigate the effect of Anval S on patients with covid-19
- Investigating the relationship between KIR allotype and death caused by corona disease in Tehran
- Investigating the effect of autohemotherapy with the help of ozone in the recovery of patients with corona
- Investigation of inflammatory factors and complement in patients with covid 19
- Purification and characterization of recombinant interleukin 4 produced from IL4-TG cell line transfected with interleukin 4 gene for research use
- Investigating the expression of D393-CD20 antigen on the blood tissue of patients with B-cell non-Hodgkin's lymphoma.

- Investigating the number of specific T clones against the S1 antigen of the SARA-COV-2 virus in patients with a history of COVID-19 and treated with the drug ANNUAL SZ compared to patients treated with chloroquine and hydroxychloroquine
- Evaluation of effective factors in the outcome of COVID-19 disease in hospitalized patients referring to Shahada Tajrish and Imam Khomeini (RA) hospitals in Tehran in the summer and autumn of 2019.
- Natural IL2 cytokine production with the help of IL2 TG cell line for research and therapeutic use

**Publication of articles:**

- ✓ Is there a link between COVID-19 mortality with genus, age, ABO blood group type, and ACE2 gene polymorphism? H Chegni, N Pakravan, M Saadati, AD Ghaffari, H Shirzad, ZM Hassan Iranian Journal of Public Health 49 (8), 1582-1584
- ✓ Antibacterial effect of Medicago sativa extract on the common bacterial in sinusitis infection H Chegini, M Oshaghi, MA Boshagh, P Foroutan, AH Jahangiri International Journal of Biomedicine and Public Health 1 (1), 1-5
- ✓ The potential association of human leukocyte antigen (HLA)-A and-B with COVID-19 mortality: a neglected risk factor M Saadati, H Chegni, AD Ghaffari, ZM Hassan Iranian Journal of Public Health 49 (12), 2433
- ✓ Preliminary in vitro effects of CD8+ T lymphocyte specific for the CD20 alternative splicing D393-CD20 peptide expressed on Burkitt lymphoma cells H Chegni, ZM Hassan, R Nisini, M Ebrahimi, F Sabouni Asian Pacific journal of cancer prevention: APJCP 20 (8), 2563
- ✓ The use of alfalfa root instead of streptolysin O in ASO diagnostic test H Chegni, M Oshaghi, B Gharegozlou, M Kaviani International Journal of Herbal Medicine 2 (6 Part A), 10-12
- ✓ The in vitro effects of vitamin 1, 25 (OH) 2 D3 on expression of cytokines: In new-onset systemic lupus erythematosus patients H Chegni, M Heidarvand Lupus 31 (8), 939-943
- ✓ Immune response and cytokine storm in SARS-CoV-2 infection: Risk factors, ways of control and treatment H Chegni, H Babaii, ZM Hassan, M Pourshaban European Journal of Inflammation 20, 1721727X221098970

- ✓ Comparing Para-clinical and Laboratory Methods of Covid-19 Diagnosis in Iran H Chegni, HHK Khani, Z Nasiri, FE Malayeri, F Ghaedrahmati, ARCHIVES OF ADVANCES IN BIOSCIENCES (JOURNAL OF PARAMEDICAL SCIENCES)
- ✓ The Association between Proportion HLA-BW4 or HLA-BW6 May Causes Immunity Failure in COVID-19 H Chegni, A Abbasi, H Rajayi, ZM Hassan Iranian Journal of Allergy, Asthma and Immunology 21 (1), 101
- ✓ Natural killer cell: New suspect on cytokine storm in COVID-19 infection H Chegni, N Rahmani-Kukia, A Abbasi, N Pakravan, M Pourshaban Archives of Advances in Biosciences 12 (4), 58-62
- ✓ T cell therapy of B-CLL lymphoma against CD20 alternative splice variant: in vitro experiments H Chegni, Z Hassan, H Babaii Archives of Advances in Biosciences 12 (3), 81-91
- ✓ T Cell Therapy of Burkitt's Lymphoma in Nude Mice Model Tumorized with Ramos Cell Line MEFS Hamid Chegni, Zuhair M Hassan, Roberto Nisini Journal of Clinical & Cellular Immunology 9 (06)
- ✓ Design, effectiveness, limitations and future Perspectives of CAR-T cells: a review article H Chegni, S Entezari Archives of Advances in Biosciences 13 (1), 1-7
- ✓ "Anybody Should Follow Their Own Footsteps": An Interview with Pietro Alano M Pourhaji, H Chegni Archives of Advances in Biosciences 13 (1), 1-2
- ✓ Comparison of common para-clinical and laboratory methods in Iran: for the diagnosis of Covid-19 disease H Chegni, HHK Khani, Z Nasiri, F Ghaedrahmati, M Heidarvand Archives of Advances in Biosciences 13, 1-10

**Compiled and translated the book:**

- ✚ Practical essentials of medical immunology
- ✚ Who is the winner in the confrontation between the immune system and cancer cells?

### **Receiving awards and honors:**

- Member of the National Elite Foundation of Tehran Province
- 2nd rank of specialized doctorate in immunology
- The first person in the laboratory science course in the associate degree
- Selected as the chosen professor of the group

### **Technical career records:**

- The company produces and distributes laboratory kits
- Cooperation with Fortress UK
- Setting up a kit to detect the amount of phenol in urine samples
- Scientific representative of RADIM Italy
- Passing a 6-month study opportunity at the ISS center in Italy
- IL2 cytokine production
- IL4 cytokine production

### **Research fields and interests:**

- Cancer (T cell therapy, immunotherapy and immunovaccination)
- Dendritic tuberculosis and stem cancer tuberculosis
- Mesenchymal Stem Tuberculosis
- Autoimmune diseases (lupus, MS, arthritis)
- Allergy and the effect of plant extracts on inflammation and infectious diseases and...

### **Techniques and skills:**

- cell culture
- Flow cytometry
- Molecular techniques (PCR, RT-PCR)
- Immunohistochemistry
- Clone isolation and limiting dilution

- Immunoblotting (Western blot, Southern blot, etc.)
- Carba Nude Mice induces tumors in laboratory animals
- ELISA technique (design)
- chromatography
- Maceration plant extraction
- Pathology techniques
- Monoclonal antibody production
- Complete mastery of clinical tests (hematology, immunology, microbiology, parasitology, urinalysis, serology, blood sampling, quality control and documentation)
- Work with Sysmax KX21, K1000, Cobas Mira, Mindray, Hitachi, Vaidas, Statfax, FP20, Sirio S and...