

## CURRICULLUM VITAE



Department of Molecular Medicine,  
Biotechnology Research Center  
Pasteur Institute of Iran  
69, Pasteur Ave. Tehran-13164  
Tel: +98 21 66480780  
Fax: +98 21 66480780  
Mobile phone No.: +989122858058  
Email: Hamidi@pasteur.ac.ir  
Hamid143@Yahoo.com

### Personal details:

Nationality: Iranian  
First name: Mohammad  
Surname: Hamid  
Place of birth: Ramshir, Iran  
Date of birth: 21/03/1971  
Family status: Married

### Education:

- 1- Biology (Microbiology) Bs.c (1990-1994).
- 2- Cellular and molecular biology (Microbiology) Ms.c (1999-2002).
- 3- Molecular genetics Ph.D (2004-2010).
- 4- Assistant Professor, Molecular Medicine Dept. (2012-Present)
- 5-

### Working Experiences:

- 1- General Medical Diagnosis Lab. Army Hospital 578. Ahwaz Iran (1995-1996).
- 2- Executor of importation crude oil (1997).
- 3- Mycobacteriology Dept. Pasteur institute of Iran (1999- 2007).
- 4- Human genetic Lab (Dr. Akbari) (2003-2011).
- 5- Department of Molecular Medicine, Biotechnology Research Center (2007 –Present).

## Research of projects:

- 1- Analysis of *DYT6* mutation and genotype-phenotype correlation in patients with dystonia from Iran 2010 to 2012 (Iran National Science Foundation).
- 2- Molecular analysis of *BCR-ABL* gene mutations in chronic myeloid leukemia patients with imatinib resistance 2010 to be continued (Pasteur Institute of Iran).
- 3- Screening of high Hb F samples and functional analysis of  $\gamma$ -gene regulatory elements as a target for HbF induction 2008 to 2010 (Pasteur Institute of Iran).
- 4- Evaluation of Cucurbitacin compounds on HbF induction in thalassemia major and sickle cell disease 2008 to 2010 (Iran National Science Foundation).
- 5- Study the resistance strains of MTB to rifampicin and- isoniazid in MDR-patients in zabol 2005 to 2007(Pasteur Institute of Iran).
- 6- Comparison of 50 Iranian MDR samples with Belarusian MDR patients 2005 to 2007 (Pasteur Institute of Iran).

## Publications:

### Papers:

- 1- **Mohammad Hamid**, Gholamreza Shariati, et al. Hb Ahvaz [ $\alpha$ -83 (F4), Leu>Arg], a new hemoglobin variant of the  $\alpha$ 2-globin gene. Hemoglobin 2013 (accepted)
- 2- **Mohammad Hamid**, Gholamreza Shariati, et al. Identification of IVS-I (-1) (G>C) or Hb Monroe as a first report on the beta- globin gene with a beta thalassemia minor phenotype in South of Iran. Archives of Iranian Medicine 2013 (Accepted)
- 3- **Mohammad Hamid** and Mohammad Taghi Akbari. Identification of alpha globin chain variants: a report from Iran. Archives of Iranian Medicine 2012 Sep;15(9):564-7.
- 4- Akbari MT, Shahidi GA, Zand Z. and **Hamid M**. Clinical features, DYT1 mutation screening, and genotype-phenotype correlation in patients with dystonia from Iran. Med Princ Pract. 2012 Apr 6. [Epub ahead of print]
- 5- **Mohammad Hamid** and Mohammad Taghi Akbari. A 13 bp deletion in the 3'UTR of the beta-globin gene causes beta-thalassemia intermedia in compound heterozygote form with IVSII-1mutation leading to

- misdiagnosis of beta-thalassaemia carrier status. *Med Princ Pract*. 2011;20(5):488-90.
- 6- Hossein Teimori, **Mohammad Hamid**, Mehdi Forouzandeh, Eisa Bibordi, Mohammad Taghi Akbari. Analysis of CD38 and ZAP70 mRNA expression within cytogenetic subgroups of Iranian chronic lymphocytic leukemia. *Genet Mol Res*. 2011 Oct 7;10(4):2415-23.
  - 7- **Mohammad Hamid**, Frouzandeh Mahjoubi, Mohammad Taghi Akbari, Hossein Khanahmad, Fatemeh Jamshidi, Sirous Zeinali, and Karimipoor Morteza. Transient expression assay of Agamma-588 (A/G) mutations in the K562 cell line. *Iran Biomed J*. 2011 Jan-Apr;15(1-2):15-21.
  - 8- MOHAMMA TAGHI AKBARI, MEHRDAD NORUZINIA, HOSSEIN MOZDARANI, **MOHAMMAD HAMID**. Determination of exon 7 SMN1 deletion in Iranian patients and heterozygous carriers by Quantitative Real-Time PCR. *J Genet*. 2011 Apr;90(1):133-6.
  - 9- **Hamid M**, Akbari MT, Shahidi GA, Zand Z. The frequency of DYT1 mutation in primary dystonia patients from Iran. *Cell Journal(Yakhteh)*, Vol 13, No 1, Spring 2011, Pages: 55-58
  - 10- Mohammad Taghi Akbari & **Mohammad Hamid** & Mina Izadyar Identification of rare hemoglobin variant (Hb Fairfax) causing dominant  $\beta$ -thalassemia phenotype in an Iranian family. *Ann Hematol* 2011 Mar;90(3):349-51.
  - 11- Hashemi Gorji F, **Hamid M.**, Arab A., Amirian A., Zeinali S., Karimipoor M. Relationship between DNA polymorphisms at the BCL11A and HBS1L-MYB loci in 9-Thalassemia. *Sci J Iran Blood Transfus Organ* 2011; 8(3):149-157
  - 12- Morteza Karimipoor, Aida Arab, Ali Rajabi, **Mohammad Hamid**, Molecular characterization of  $\beta$ -thalassemia intermedia: a report from Iran. *Mol Biol Rep*. 2011 Oct;38(7):4321-6.
  - 13- **Hamid M**, Karimipoor M, Hashemzadeh chalestori M, Akbari MT. A novel 355-357 delGAG mutation and frequency of connexin-26 (GJB2) mutations in Iranian patients. *J Genet*. 2009 Dec;88(3):359-62.
  - 14- **Hamid M**, Mahjoubi F, Akbari MT, Arab A, Zeinali S, Karimipoor M. Molecular analysis of gamma-globin promoters, HS-111 and 3'HS1, in beta-thalassemia intermedia patients associated with high levels of Hb F. Hemoglobin. 2009;33(6):428-38.

- 15- **Hamid M**, Mahjoubi F, Akbari MT, Zeinali S, Karimipoor M. The Cretan type of nondeletional hereditary persistence of fetal hemoglobin in an Iranian family *Ann Hematol*. 2009 Dec;88(12):1267-8.
- 16- **Hamid M**, Karimipoor M, Zeinali S, Akbari MT, Kokabi L, Mahjoubi F. Molecular analysis of HS-111 and 3'HS1 variations in  $\beta$ -thalassemia intermedia patients with high levels of HbF. *Yakhteh Medical Journal*, 5/May/2009 418-423
- 17- Feizabadi MM, Shahriari M, Safavi M, Gharavi S, **Hamid M**. Multi drug-resistant of *Mycobacterium tuberculosis* isolated from patients in Tehran belong to a genetically distinct cluster. *Scan J Inf Dis (2003) 35, 1/ January 1, 47-51*

#### Congresses/Conferences:

- 1- G. Shariati, **M. Hamid**, A.H. Saberi, B. Sharififard1, B. Keikhaei, M. Pedram. Prevalence of  $\alpha\alpha\alpha$  anti3.7 triplication in beta-thalassemia carriers in south of Iran. "American Society of Human Genetics 62<sup>nd</sup> Annual Meeting November 6-10, 2012 San Francisco, California"
- 2- **M.Hamid**, G.R. Shariati, A.H. Saberi, M. Mohammadi. Maple syrup urine disease due to a new point mutation at BCKDHB in Iranian family. "American Society of Human Genetics 62<sup>nd</sup> Annual Meeting November 6-10, 2012 San Francisco, California"
- 3- **M. Hamid**, M. Akbari. Frequencies of BCR-ABL1 fusion transcripts among Iranian patients with leukemia "European Journals of Human Genetic volume 20 supplement 1 June 2012".
- 4- **M. Hamid**, G. Shariati, A. Saberi, M. Mohammadi B. Keikhai. Identification of two new alpha globin gene mutations in patients suspected of having alpha thalassemia "European Journals of Human Genetic volume 20 supplement 1 June 2012".
- 5- F. Hashemi gorji, **M. Hamid**, A. Arab, A. Amirian, S. Zeinali, M. Karimipoor, Lack of association between single nucleotide Polymorphism and BCL11A HBS1L-MYB situations with increased levels of fetal hemoglobin "European Journals of Human Genetic volume 19 supplement 2 May 2011".
- 6- **M. Hamid**, G. Shariati, A. Saberi, M. Mohammadi B. Keikhai, Identification of two new alpha globin gene mutations in patients suspected of having alpha thalassemia "European Journals of Human Genetic Jun 2012".

- 7- **M. Hamid**, M. Akbari; Frequencies of BCR-ABL1 fusion transcripts among Iranian patients with leukemia "*European Journals of Human Genetic Jun 2012*".
- 8- **Mohammad Hamid**, Frouzandeh Mahjoubi, Hossein Khanahmad<sup>c</sup>, Fatemeh Jamshidi, Sirous Zeinali, Mohammad Taghi Akbari and Karimipoor Morteza. Functional assay to compare the activity of -588 (A/G) mutations in the  $\gamma$ -globin gene expression in the K562 cell lines. "*COHEM Congress Rome, Italy 2-5 Sept. 2010*"
- 9- **M. Hamid**, F. Mahjoubi, S. Zeinali, MT. Akbari, M. Karimipoor. Expression study of -588 (A>G) mutation of  $\gamma$ -globin gene as a marker for differentiation of  $\beta$ -thalassemia intermedia in Iranian patients. "*34<sup>th</sup> FEBS congress life's molecular interactions july 4-9, 2009, Prague, Czech Republic*".
- 10- **M. Hamid**, F. Mahjoubi, S. Zeinali, MT. Akbari, M. Karimipoor. Molecular analysis of HS-111 and 3'HS1 variations in  $\beta$ -thalassemia intermedia patients with high levels of HbF "*1<sup>st</sup> National congress of cellular & molecular news in non contagious disease 21 May 2009 Babol, Iran*"
- 11- **M. Hamid**, F. Mahjoubi, A. Arab, S. Zeinali, MT. Akbari, M. Karimipoor. Molecular analysis of  $\gamma$ -globin promoters, HS-111, and 3'HS1 in beta thalassemia intermedia patients associated with high levels of HbF. "*European Journals of Human Genetic volume 17 suplement 2 May 2009*".
- 12- **M. Hamid**, F. Mahjoubi, A. Arab, S. Zeinali, MT. Akbari, M. Karimipoor. Molecular analysis of  $\gamma$ -globin promoters in beta thalassemia intermedia patients associated with high levels of HbF. "*11<sup>th</sup> International conference on thalassaemia & haemoglobinopathies and 13<sup>th</sup> international TIF conference for thalassaemia patients & parents 8-11 oct 2008, Singapore*"
- 13- **M. Hamid**, F. Mahjoubi, MT. Akbari. Prevalence of the mutations in Iranian patients with deafness. "*10<sup>th</sup> Iranian genetics congress 21-23 May, 2008 Tehran, Iran*"
- 14- **M. Hamid**, M. Hashemzadeh chaleshtori, MT. Akbari. Two Novel frameshift mutations in the Connexin 26 Gene (GJB2) in Iranian HHL patient "*the 1<sup>st</sup> international congress on health genomics & biotechnology Iranian biomedical journal volume 11. suplement 1.november 2007 Tehran, Iran*"
- 15- **M. Hamid**, M. Karimipoor. Regulatory elements of  $\gamma$ -globin gene as a suitable target for HbF induction. "*the 1<sup>st</sup> international congress on*

*health genomics & biotechnology Iranian biomedical journal volume 11. supplement 1.november 2007 Tehran, Iran"*

- 16- **M. Hamid**, MT. Akbari. Mutation analysis of del(GJB6- D13S1830) in Iranian non-syndromic deaf patients "*The 5th Annual Meeting of The African Society of Human Genetics (AfSHG) November 3 - 5, 2007 Cairo, Egypt*"
- 17- **M. Hamid**, Z. Minuchahr, MT. Akbari. Phylogenetic and migration analysis of Iranian populations based on the connexin-26 mutation "*Archives of Iranian Medicine Volume 10/Number 4 October 2007*"
- 18- **M. Hamid**, M. Hashemzadeh chaleshtori, S. Zare, F. Mahjoubi, MT. Akbari. A novel 355-356 delGA framshift mutation and frequency of Connexin-26 (GJB2) mutation in Iranian patients "*European Journals of Human Genetic volume 15 suplement 1 june 2007*"
- 19- A.R Hadizadeh Tasbiti, S.H Yari, A. Karimi, A. Noor nematolahi, **M. Hamid**, et al. Epidemiology evaluation of multi-drug resistant Tuberculosis in Tehran Iran (2004-2005)"*Intrnational Journal of infectious disease 12<sup>TH</sup> ICID abstracts Lisbon Portugal Jun 15-18, 2006*"
- 20- **M. Hamid**, M. Mohamadi. CagA gene of *Helicobacter pylori* and gastrointestinal disorders "*Colloque scientifique du reseau international des instituts Pasteur 16-17 Nov 2005 Alger*"
- 21- **M. Hamid**, S.H Yari, A. Karimi, A.R Hadizadeh Tasbiti, A.R Bahrmad. Comparative proteome analysis of multi-drug resistance and sensitive strains of *Mycobacterium tuberculosis*. "*8<sup>th</sup> Iranian congress of biochemistry and first international congress of biochemistry & molecular biology September 11-15, 2005*"
- 22- A.R Hadizadeh Tasbiti, S.H Yari, A. Karimi, A. Noor nematolahi, **M. Hamid**, et al. An outbreak of initial and multi-resistant tuberculosis among patients observed of the Pasteur institute of Iran (2003). "*Colloque scientifique du reseau international des instituts Pasteur 18 Nov 2004, Tehran*"
- 23- A.R Hadizadeh Tasbiti, S.H Yari, A. Karimi, **M. Hamid**, et al Susceptibility of *M.tuberculosis* to anti-tuberculosis drugs and combined drug resistance in Tehran, Iran (2001-2003). "*Colloque scientifique du reseau international des instituts pasteur 18 Nov 2004, Tehran*"
- 24- A.R Khabiri, M. Taghikhani, R. Mokhah, S. Bakhteiari, **M.Hamid**. Purification and immunological characterization of secreted Antigens of *Mycobacterium tuberculosis*. "*The 17<sup>th</sup> National congress of Tuberculosis 14-16 Oct, 2003, Isfahan-Iran*"

- 25- M.M Feizabadi & **M. Hamid** Use of highly repetitive element in RFLP analysis to study the molecular epidemiology of tuberculosis in Tehran. "*The 17<sup>th</sup> National congress of Tuberculosis 14-16 Oct, 2003, Isfahan-Iran*"
- 26- A.R Hadizadeh Tasbiti, S.H Yari, A. Karimi, M. Masomi, **M. Hamid** et al. A continuing study of primary drug resistant tuberculosis among patients observed at the Pasteur Institute of Iran between the years 2000 and 2002. "*The 1<sup>st</sup> national congress of pulmonary disease, specified control and tuberculosis 1-4 Dec 2003*"
- 27- **M. Hamid**, M. Mohammadi. Analysis of *Helicobacter pylori* 3' area of CagA gene by PCR-RFLP. "*13<sup>th</sup> European Congress of Clinical Microbiology and Infectious Disease 10- 13 May 2003 Glasgow/UK*"
- 28- **M. Hamid**, M. Mohammadi. Analysis of CagA gene of *Helicobacter pylori* "*The 10<sup>th</sup> Iranian congress on infectious disease and topical medicine 5-9 Jan, 2002*"
- 29- M. Mohammadi, **M. Hamid**, N. Mohajerani, A. Oghalai, L. Andersen, H. Colding. Genotyping multiple segments of the Cag gene among Iranian *Helicobacter pylori* strains. Enzymatic digestion profile of the *Helicobacter pylori* cytotoxin and its association with peptic ulcer disease. "*Int J Med Microb (2001) 291(31), 31.*"
- 30- M. Mohammadi, N. Mohajerani, A. Oghalai, A. Adeli, **M. Hamid**, L. Andersen, H. Colding. Genotyping Iranian *Helicobacter pylori* strains via PCR-RFLP and comparison with European strains. "*The 2<sup>nd</sup> national biotechnology congress Islamic Republic of Iran 9-11 Oct, 2001, Karaj*"
- 31- M. Babaei, A. Bahrmand, A.Ramezani, A.R Hadizadeh Tasbiti, A. Karimi, A. Noor nematolahi, **M. Hamid**. Identification and diagnosis of non-tuberculosis mycobacteria (NTM) in-patients refer to Pasteur institute of Iran (1999) "*The 9<sup>th</sup> Iranian congress on infectious disease and topical medicine 14-18 Jan 2001*"
- 32- M.M Feizabadi, A. Bahrmand, **M. Hamid**, **M. Safavi**, **M. Shahriari**. Multiple drug resistant strains of *Mycobacterium tuberculosis* isolated from patients in Tehran belong to a genetically distinct cluster. "*The 3<sup>rd</sup> Iranian congress on microbiology 23-25 Aug 2000*"

## Teaching Experiences:

- Genetic engineering for PhD students, Pasteur Institute of Iran
- Human genetics for Bs.c Azad University
- Evolution for Bs.c Azad University

-The Human Genome for Bs.c Azad University  
-Molecular Diagnostic Methods in Medical Biotechnology for PhD students,  
Pasteur Institute of Iran

### **Dissertations:**

-Analysis of methylation status in promoter region of DYT1 gene in Dystonia patients in comparison with Normal individuals **Rahnavard S, MSc student of Genetics, Azad University.**  
- Determination of BCR- ABL transcripts frequency and analysis ABL gene mutations in chronic myeloid Leukemia patients with imatinib resistance and sensitive. **Rostami G, MSc student of Genetics, Azad University.**  
- Molecular analysis of Mental retardation patients by Array CGH method. **Mola S, MSc student of Genetics, Azad University**

### **Masters Thesis:**

Analysis of *Helicobacter pylori* CagA gene by PCR-RFLP

### **PhD Thesis:**

Analysis of nucleotide changes in  $\gamma$ - globin regulatory elements of  $\beta$ -thalassemia intermedia patients and construction of mammalian expression cassettes to characterize their function in the K562 cell line.

### **Languages:**

#### **1- English:**

- MCHE (total score 473/679)

2- Arabic

3- Persian

### **Symposium, Training Course & workshop:**

- 1- Participated in the European Society of Human Genetics June 23 - 26, 2012 Nürnberg, Germany
- 2- Participated in the *FEBS* congress July 4-9, 2009, Prague, Czech Republic
- 3- Successfully completed the workshop entitled: DNASIS MAX 2.0 sequence Analysis Software (2010)
- 4- Participated in the Royan International Twin Congress (2009)
- 5- Participated in Leishmania immunology conference (2009)



- 6- Participation in theoretical and practical workshop entitled: Biosafety in molecular biology lab (2008).
- 7- Participated in seminar of GIS Tehran (2007).
- 8- Successfully completed theoretical and practical courses of International Computer Driving Licence (ICDL) for 130 hours (2007)
- 9- Successfully completed the electronic (2 weeks) & practical (3 days) coursework training entitled “Peptide Mapping” December (2006)
- 10- Successfully completed the genomic analysis tools: genome workbench and SeqVISTA , (2006).
- 11- Participated in Seminar of Cloning in school of public health & institute of public health research Tehran university of medical science on March 6<sup>st</sup> 2006
- 12- Workshop on expression, production and assay of enzyme for biotechnology purposes Tehran, 23-26Dec 2006
- 13- Workshop on Citation management Tehran, 27-28 Nov 2006
- 14- Participated in First international symposium on molecular technology (Biotechnology in progress) Tehran 30<sup>th</sup> July- 1<sup>st</sup> August 2005.
- 15- Training course in medical molecular genetics specially in prenatal diagnosis (PND) of thalassemia in Medical genetics Lab (Dr MT Akbari) 2005
- 16- Participated in Leishmaniosis symposium (2005)
- 17- Participated in Colloque scientifique du reseau international des institutes Pasteur 18 Nov 2004, Tuberculose-Leishmaniose
- 18- Participated in Food poisoning and botulism training course (2002)

## **Experiences Techniques:**

Molecular and protein techniques:

PCR, PCR- RFLP, Nested PCR, Gap PCR ,Arms PCR, RT- PCR, long PCR, Real Time PCR, Cell culture, Analysis of sequencing, Primer designing, RFLP designing, SDS page, electrophoresis, chromatography, western blot, cloning, MLPA, Array CGH .....

I have been also working in medical molecular genetics laboratory, contributing and managing the molecular tests for carrier detection and prenatal diagnosis of genetic disorders, especially thalassemia.

## **Computing skills:**

Bioinformatics, ICDL, PhotoShop, SPSS, EPI, Gene runner, corel.....