

## **MEHRAN GHOLAMIN, Ph.D.**

### **Position:**

Supervisor, Division of Human Genetics Lab,  
Avicenna Research Institute,  
Mashhad University of Medical Sciences

### **Work Address:**

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### **Awards and Honors**

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| 2010 | Scholar-in-Training Award, AACR International Conference on "Advances in Cancer Research: From the Laboratory to the Clinic"  |
| 2009 | Best research of the year, Khorasan Razavi Research and Technology Festival " <i>In vitro</i> analysis of immune response of the T lymphocytes primed with the Dendritic Cells loaded with total tumor mRNA for immunotherapy of esophageal cancer" Principal Contributor |
| 2006 | Best research scholar of the year, "Research Week" Mashhad University of Medical Sciences (MUMS).   |

### **Education:**

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| 2003–2009 | Ph.D., Immunology, Mashhad University of Medical Sciences (MUMS), Iran. Advisor: Abbaszadegan MR, Ph.D., |
| 1998-2000 | M.Sc. Immunology, Mashhad University of Medical Sciences   |

1995-1997	Bachelor in Medical Technology, Iran University of Medical Sciences
1986-1989	Lab Technician, Iran University of Medical Sciences

### **Experience:**

10/2000 - 09/98 - 10/2000	full-time immunologist, Supervisor of Human Genetics lab. part-time medical lab technologist during my M.Sc. in immunology
1997 – 1998	full-time medical lab technologist
1995 – 1997	part-time medical lab technologist during my Bachelors of science program.
1992 – 1995	full-time officially employed medical lab.
1991 - 1992	full-time medical lab technologist during which I served my Mandatory Manpower Service Plan.
1989 – 1991	part-time medical lab technologist during conscription service period.

### **Technical and Specialized Skills:**

- *Laboratory Experience:*  
Elispot test, cytotoxicity test, flow cytometry, Gene transfer (transient& stable), Electroporation , Cell Culture, DNA and RNA Extraction. RT-PCR, PCR-RFLP, PCR-SSCP, ARMS-PCR, Semiquantitative PCR., Electrophoresis, Real-time PCR, ELISA, WESTERN BLOTT, SDS-PAGE, Clinical lab tests,
- *Computer Skills:*  
Communication and networking, Word processing (Microsoft Word), Adobe Photoshop, Power point, Familiar with genetic software such as Sequencher, Gene Runner, Oligo, KODAK ID Image Analysis Software. Familiar with SPSS statistical software, Flow cytometry analysis software .

### **Publications:**

1. Mohammad Mahdi Forghanifard, **Mehran Gholamin**, Moein Farshchian, Omeed Moaven, Bahram Memar, Mohammad Naser Forghani, ezzat Dadkhah, hossein Naseh, Meysam Moghbeli, Reza Raeisossadati and Mohammad Reza Abbaszadegan, Cancer-testis gene expression profiling in esophageal squamous cell carcinoma . Cancer Biol Ther. 2011 Aug 1;12(3).
2. **Gholamin M**, Moaven O, Farshchian M, Mahmoudi M, Sankian M, Memar B, Rajabi-Mashhadi MT, Forghani MN, Malekzadeh R, **Abbaszadegan MR**: Induction of cytotoxic T lymphocytes primed with Tumor RNA-loaded Dendritic Cells in

Esophageal Squamous Cell Carcinoma: preliminary step for DC vaccine design. *BMC Cancer*, 2010, Jun 7; 10:261.

3. **Ghoamin M**, Moaven O, Farshchian M, Rajabi-Mashhadi MT, Mahmoudi M, Sankian M, Sazgarnia A, Ghahreman M, **Abbaszadegan MR**: Highly Efficient Transfection of Dendritic Cells with GFP mRNA: Optimization Tool for Immunogenotherapy of Esophageal Squamous Cell Carcinoma, *Ir J Biotech*. 2010, 8(2); 121-126.
4. **Ghoamin M**, Moaven O, Farshchian M, Memar B, Naseh H, Malekzadeh R, Sotoudeh M, Rajabi-Mashhadi MT, Forghani MN, Farrokhi F, **Abbaszadegan MR**: Overexpression and Interactions of IL-10, TGF- $\beta$  and VEGF mRNA Expression in ESCC. *World J Surgery*.2009, 33(7);1439-45.
5. Abbaszadegan MR, Tavasoli A, Velayati A, Sima HR, Vosooghinia H, Farzadnia M, Asadzede H, **Gholamin M**, Dadkhah E: Stool-based DNA Testing, A New Noninvasive Method for Colorectal Cancer Screening, The First Report from Iran. *World J. Gastroentology*. 2007, 13(10); 1528-1533.
6. Vakili R, Baradaran Heravi A, Barid Fatehi B, **Gholamin M**, Ghaemi N, Abbaszadegan MR: Molecular Analysis of the *CYP21* Gene and Prenatal Diagnosis in Families with 21-Hydroxylase Deficiency in Northeastern Iran. *Hormone Research*.2005, 65; 119-124,
7. Abbaszadegan MR, Omidi A, Niyazi A, Zoheidi MR, **Gholamin M**, Jami-Ahmadi K, Ghaffarzadegan K. Prevalence of Human Papilloma Virus type 16 and 18 and expression of mutant p53 in Esophageal Squamous Cell Carcinoma. *Iranian J. Basic Medical Sciences*. 2004, 4(6); 38-42.
8. Abbaszadegan MR, **Gholamin M**, Tabatabaee A, Farid R., Houshmand M., Abbaszadegan M. Prevalence of Human T-Lymphotropic Virus Type 1 among blood donors from Mashhad, Iran. *J. Clin. Microbio*. 2003, 41(6); 2593-2595.
9. Abbaszadegan MR, Shirdel A, Soroori J, Gholami B, **Gholamin M**, : Detection of minimal residual disease in CML patients after bone marrow transplantation using a semi-quantitative RT-PCR of BCR-ABL fusion gene(Persian). *Iranian J. Basic Medical Sciences*. 2001, 4(4);183-187.
10. Abbaszadegan MR, Varasteh AR, Khoshroo M, Gholami B, **Gholamin M**. Isolation and purification of TAX protein of HTLV-1 virus using recombinant DNA Techniques. *I.R. Iran Biotechnology* .1999, 3; 456-461.

**Abstract and presentation:**

1. **Gholamin M**, Application of RNA molecule in cancer immunotherapy, Symposium on Molecular Aspects of Cancer, December 20<sup>th</sup>, **2010**, Ferdowsi University of Mashhad, Mashhad, Iran. (Oral presentation)
2. A. Baradaran-Heravi, R. Vakili, B. Barid-Fatehi, N. Ghaemi, Z. Vahedian, **Gholamin M**, MR Abbaszadegan. Molecular analysis of *CYP21* gene in 30 patients with 21-hydroxylase deficiency in northeastern IRAN. 3<sup>rd</sup> Iranian Congress of Genetic Disorder & Disabilities. Tehran, Iran. November **2004**.
3. The Fifth "ROYAN INTERNATIONAL RESEARCH AWARD Reproductive Biomedicine", September 1-3, **2004**, Tehran, Iran
4. **Gholamin M**, MR Abbaszadegan, et al., Evaluation of HTLV-I tax polymorphism as a probable risk factor for HAM/TSP in Khorasanian patients 7<sup>th</sup> Iranian congress Immunology and Allergy, 7 May **2004**, Mashhad, Iran, oral presentation.
5. **Gholamin M**, MR Abbaszadegan, et al., Study of the association of HPV infection and P53 mutation with esophageal SCC. 8<sup>th</sup> Iranian Genetics Congress, Iran May 20-22, **2003**
6. Second Iranian Congress of Genetic Disorders and Disabilities, 7-11 Dec **2002**, Tehran, Iran
7. Kerachian MA, Houshmand M, Banihashem A, **Gholamin M**, Vakili R, Abbaszadegan MR: Molecular analysis of  $\alpha$ -thalassemia in an Iranian Population. 51<sup>th</sup> Annual meeting of The American Society of Human Genetics. San Diego, CA, October **2001**.
8. Abbaszadegan MR, **Gholamin M**, Farid R., Tabatabaee A, Kerachian MA, Houshmand M. Prevalence of HTLV-1 among blood donors from Mashhad, Iran. 11<sup>th</sup> International Congress of Immunology. Stockholm, Sweden, July **2001**.
9. Abbaszadegan MR, **Gholamin M**, Tabatabaee A, Farid R., Houshmand M., Abbaszadegan M. Prevalence of Human T-Lymphotropic Virus Type 1 among blood donors from Mashhad, Iran 5<sup>th</sup> Iranian congress of Immunology and Allergy, Tarbiyat Modares University, Tehran, Iran, May 18-20, **2000**, oral presentation

### **Research Activities (Ongoing Research Projects) :**

1. Microsatellite markers analysis in endometrial cancer.
2. Microsatellite analysis in colorectal cancer patients.
3. Evaluation Of new serum biomarkrs in screening of Esophageal Carcinoma.
4. Cell culture of Esophageal Squamous Cell Carcinoma (ESCC) And Establishment of cell lines.
5. Analysis of Microsatellite Instability in serum and tumoral samples of patients with Gastric Cancer and its relationship with methylation and gene expression of hMLH.
6. Comparative analysis of INPP5A mRNA and its protein expression between tumor and normal tissues of patients with esophageal squamous cell carcinoma.
7. HLA-G and XRCC5 expression analysis in Tumors of patients with esophageal squamous cell carcinoma using Real-time PCR technique.
8. In vitro analysis of enhanced immune response of T lymphocytes primed with DC loaded with enriched tumoral- mRNA for immunotherapy of esophageal squamous cell carcinoma.
9. Construction and *In vitro* Immuno-response Analysis of Recombinant Chimeric Antigenic Epitopes as a Dendritic Cell-Vaccine for Immuno-gene therapy of Esophageal Squamous Cell Carcinoma.

### **Academic/Research Interests:**

- ❖ Cancer Immunology
- ❖ Cancer immunotherapy
- ❖ DC-based cancer vaccine design
- ❖ Immune evasion strategies of cancer
- ❖ Detection of new tumor marker in diagnosis and treatment of cancer