

## **Masumeh Mohammadi**

PhD in molecular medicine

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### **Education:**

#### **I. Qualifications:**

2013 PhD in molecular medicine, Tabriz Medical University

2009 M.Sc in medical virology, Tarbiat Modares University

2006 B.Sc in laboratory medicine, Esfahan Medical University

#### **II. Thesis:**

##### **PhD thesis' titles:**

Effect of Visfatin and Resistin on Telomerase Gene Expression in Gastric Cancer AGS Cell Line.

##### **M.S thesis' titles:**

Influence of light expression plasmid in kinetic of primary and memory CTL responses induced by HSV-1 DNA vaccine.

#### **Projects:**

##### **I- Finished:**

- 1- Resistin effects as a biomarker on bladder cancer.
- 2- Effect of Visfatin and Resistin on Telomerase Gene Expression in Colorectal Cancer HCT116 Cell Line.
- 3- Evaluation of humoral and cellular immune response against HSV1 using genetic immunization by filamentous phage particles.
- 4- Impact of timing strategy of LIGHT, a new TNF superfamily on immune platform induced by HSV-1 gB DNA vaccine.

- 5- Calculating aggregation and heritability of the thyroid peroxidase autoantibody levels in the Tehran Lipid and Glucose Study (TLGS) population.
- 6- Systematic review and meta-analysis of prognostic effect of visfatin in cancers.
- 7- Systematic review and meta-analysis of circulating visfatin levels and cancer risk.
- 8- The role of obesity in the tumorigenesis of gastric cancer.
- 9- Adipocytokines in thyroid carcinomas.
- 10- Epigenetic alteration in Medullary Thyroid Cancer.
- 11- Circulating visfatin levels and cancers risk.
- 12- Epigenetic alterations in endometrial cancer.

## II- Under process:

- 1- Examination and comparison of thyroid tissue metabolome in different stages of papillary thyroid cancer with benign tumor and normal tissue.
- 2- Chemerin serum levels in thyroid cancers.
- 3- INVESTIGATION AND COMPARATION OF NKX2-1, PAX8 AND FOXE1 GENE EXPRESSION IN PAPILLARY THYROID CANCER TISSUE.

## Publications:

### I- Published Full text papers:

- 1- **Masoumeh Mohammadi**, Faezeh Mianabadi, Hassan Mehrad-Majd. *Circulating visfatin levels and cancers risk: A systematic review and meta-analysis*. C J Physiol. 2019; 234: 5011-5022.
- 2- **Masoumeh Mohammadi**, Jalil Hosseini, Morteza Fallah Karkan, Mehdi Hedayati. *Serum Resistin levels in bladder cancer*. Men's Health Journal. 2018; 2 (1); e5.

- 3- **Mohammadi M**, Zarghami N, Hedayati M, Ghaemmaghani S. *Synergistic effects of Resistin and Visfatin as adipocyte derived hormones on telomerase gene expression, in AGS gastric cancer cell line*. Acta Medica Iranica. 2017 Oct;55(10):621-627.
- 4- **Mohammadi M**, Hedayati M. *A Brief Review on The Molecular Basis of Medullary Thyroid Carcinoma*. Cell journal. Volume 18, Number 4, Winter 2017, Serial Number: 72 Pages: 485-492.
- 5- **Mohammadi M**, Azizi F, Hedayati M. *Iodine deficiency status in the WHO Eastern Mediterranean Region: a systematic review*. Environ Geochem Health. 2017 Feb 21.
- 6- **Mohammadi M**. *Oxidative stress and polycystic ovary syndrome: A brief review*. International Journal of Preventive Medicine. (accepted)in press.
- 7- **Mohammadi, M.**; Hedayati, M.; Zarghami, N.; Ghaemmaghani, S. *Resistin Effect on Telomerase Gene expression in Gastric Cancer Cell Line AGS*. Acta Endo (Buc) 2016, 12 (2): 145-149.
- 8- **Mohammadi, M.**; Hedayati, M.; Zarghami, N.; Ghaemmaghani, S. *Resistin Effect on HCT-116 Colorectal Cancer Cells Proliferation and Telomerase Expression*. Acta Endocrinologica (1841-0987). Apr-Jun2016, Vol. 12 Issue 2, p145-149. 5p.
- 9- **Gorgian Mohammadi M**, Hedayati M, Zarghami N, Ghaemmaghani S, Mohaddes M. *Adipocyte Derived Hormones Gene Expression, Resistin and visfatin, in AGS Gastric Cancer Cell line*. (Iranian journal of cancer prevention, 2013, 6(3):165-9).
- 10- **Gorgian Mohammadi M**, Zarghami N , Hedayati M, Ghaemmaghani S , Rahmati-Yamchi M, Mohaddes M. *Visfatin Effects on Telomerase Gene Expression in AGS Gastric Cancer Cell line*. Indian J Cancer. 2015 Jan-Mar;52(1):32-5. doi: 10.4103/0019-509X.175567.
- 11- **Gorgian Mohammadi M**, Bamdad T, Parsania M, Hashemi HR, Puyanfarid S. *Kinetics of primary and memory cytotoxic T Lymphocytes Responses to Herpes Simplex Virus 1*

*Infection: Granzyme B Mediated CTL Activity.* (Iranian Journal of Immunology. Volume 6, No. 1, March 2009).

- 12-**Gorgian Mohammady M**, Bamdad T, Parsania M, Soleimanjahi H, Pouyanfard S, Hashemi H, Asghari-Jafarabadi M. *Effect of LIGHT adjuvant on kinetics of T-Cell Responses Induced by HSV-1 DNA Immunization.* (Iranian Journal of Immunology. 2011 Jun; 8(2):76-84.)
- 13-Hashemi H, Bamdad T, Jamali A, Pouyanfard S, **Gorgian Mohammadi M**. *Evaluation of humolar and cellular immune responce against HSV1 using genetic immunization by filamentous phage particles: a coparative approach to conventional DNA vaccine.* (Journal of Virological Methods. Volume 163, Issue 2, February 2010, Pages 440-444).
- 14-Pouyanfard S, Bamdad T, Parsania M, Hashemi H, **Gorgian Mohammadi M**. *Impact of timing strategy of LIGHT, a new TNF superfamily on immune platform induced by HSV-1 gB DNA vaccine.* (Cytokine. 2010 Apr; 50(1):99-103. Epub 2010 Jan 22).
- 15-Sara Ghaemmaghani, Seyed Mojtaba Mohaddes, Mehdi Hedayati, **Masumeh Gorgian Mohammadi**, Golnoosh Dehbashi. *Resistin and Visfatin Expression in HCT-116 Colorectal Cancer Cell Line.* IJMCM, 2013, Vol 2, No 7.
- 16-Sara Ghaemmaghani, Mehdi Hedayati, Seyed Mojtaba Mohaddes, **Masumeh Gorgian Mohammadi**, Mohammad Rahmati, Nosratollah Zarghami. *Visfatin Proliferative Effect on Hct-116 Colorectal Cancer Cell Line.* Advances in Environmental Biology, 8(9) Special 2014, Pages: 55-60.
- 17-Sara Ghaemmaghani, Mehdi Hedayati, Seyed Mojtaba Mohaddes, **Masumeh Gorgian Mohammadi**, Amin Barkhordari. *Resistin Effect on HCT-116 Colorectal Cancer Cells Proliferation and Telomerase Expression.* Scimetr. 2014 April; 2(2): e16718.
- 18-Sepideh Mohammadi; Arash Mahboubi; **Masumeh Mohammadi**; Mehdi Hedayati, Arsalan Jalili. *Assessing the Anticancer Effect of the Euphorbia condylocarpa Plant on AGS*

*Gastric Cancer Cell Line*. 2017. *Gene, Cell and Tissue*. 4(1): e41223 , DOI: 10.17795/gct-41223.

## **II- Fulltext papers (under submittal process in international journals):**

- 1- Circulating visfatin levels and cancers risk: A systematic review and meta-analysis
- 2- Epigenetic alterations in endometrial cancer: A brief review. First author
- 3- The role of obesity in tumorigenesis and gastric cancer progression. (Review) First author
- 4- Adipocytokines in thyroid carcinomas: a brief review First author
- 5- A brief review on the epigenetic alteration in Medullary Thyroid Cancer First author
- 6- Immune system in thyroid cancers .(Review) First author

## **Book publications:**

### **I- Published books:**

Ethics in genetic research, Persian language.

Genetics of cancer, Persian language.

Gene therapy, Persian language.

### **II- Uunder publication process books:**

Immunology network in cancer

## **Abstract presentations and submissions:**

- 1- **Masumeh Gorgian mohammadi**, M Hedayati, N Zarghami, S Ghaemmaghmi, A Barkhordari. *Does telomerase gene expression affect by Resistin in gastric cancer cell line AGS?* (3th medical genetic congress in Tehran. 2013)
- 2- **Gorgian Mohammadi M**, Hedayati M, Zarghami N, Ghaemmaghmi S, Mohaddes M. *Adipocyte Derived Hormones Gene Expression, Resistin and visfatin, in AGS Gastric Cancer Cell line.* (13th clinical biochemistry congress in Yazd. 2013)
- 3- **Gorgian Mohammadi M**, Zarghami N , Hedayati M, Ghaemmaghmi S , A Rahmati. *Visfatin Effects on Telomerase Gene Expression in AGS Gastric Cancer Cell line.* (3th medical genetic congress in Tehran. 2013)
- 4- **Gorgian Mohammady M**, Bamdad T, Parsania M, Soleimanjahi H, Pouyanfard S, Hashemi H. *Kinetic of cytotoxic T lymphocytes response to gB DNA vaccine comparing to Herpes Simplex Virus 1 infection.* (5 th virology congress Tehran 2008)

- 5- **Gorgian Mohammady M**, Bamdad T, Parsania M, Soleimanjahi H, Pouyanfard S, Hashemi H. *Evaluation of CTL responses against HSV-1 virus using Granzyme B ELISA in BALB/c mice.* (second clinical microbiology congress in shiraz-1387)
- 6- **Gorgian Mohammady M**, Zarghami N, Hedayati M, Ghaemmaghami S, Mohaddes M. *Synergic effects of Resistin and visfatin as adipocyte derived hormones on telomerase gene expression, in AGS gastric cancer cell line.* (1<sup>th</sup> Iranian national congress of molecular medicine-Mashhad. 2013)
- 7- **Mohammadi M**, Hedayati M. *A summary review of obesity and adipokines in gastric cancer.* The Second International Gastrointestinal Cancer Congress will be held on 14 - 16 October 2015 in Tehran, Olympic Hotel.
- 8- **Masoumeh Mohammadi.** *Oxidative stress in polycystic ovary syndrome.* The Second national conference on molecular medicine, 18 February 2016, Tehran.
- 9- K. Guity<sup>1</sup>, M. **Mohammadi**<sup>1</sup>, A. Amoozegar<sup>1</sup>, M. Akbarzadeh<sup>1</sup>, F. Azizi<sup>2</sup>, M. Daneshpour *Heritability of the thyroid peroxidase autoantibody levels in the Tehran Lipid and Glucose Study (TLGS).*(European Conference of Human Genetics 2018. Milan, Italy.
- 10- **Masoumeh Mohammadi**, Mehdi Hedayati. *A BRIEF REVIEW ON THE EPIGENETIC ALTERATION IN MEDULLARY THYROID CANCER.* 12th International congress of endocrine disorder. 14-16 Nov 2018. Tehran.

### **Skills and Personal Qualities:**

Laboratory techniques like cloning, immunostaining and flow cytometry, PCR, RT-PCR, Real Time PCR, Real time PCR, cell culture and etc.

Communication skills, team work, problem solving (Powerpoint, Excel, SPSS, word,...).

### **Research interests:**

Immune therapy, Gene and cell therapy, diagnosis research