

In The Name of God



Personal Informations:

Name in Full: Fatemeh Karami

First Name: Fatemeh

Family Name: Karami

Date of Birth: Day : 3 , Month: 3 , Year : 1983

National code: 0060945931

Identity number: 5441

Place of Birth : Tehran

Marital Status : Single

Nationality : Iranian

Academic Degree : PhD, **Field :** Medical Genetics

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Higher Education:

Bachelors Degree : Midwifery , Faculty of Nursing & Midwifery - Tehran University of Medical Sciences , 2006.

M.Sc : Human Genetics, Tabriz Medical University.

Ph.D: Medical Genetics, Tehran University of medical science

Workshops Participated:

- ❖ Advanced Searching
- ❖ Biostatistics I
- ❖ Internet
- ❖ Microsoft Excel
- ❖ Research Methodology I
- ❖ SPSS I
- ❖ Primer Design
- ❖ Western blotting
- ❖ Real time RT-PCR
- ❖ Advanced cytogenetics
- ❖ Article review
- ❖ Advanced academic teaching
- ❖ Next generation sequencing
- ❖ Laboratory approaches to Ebolla
- ❖ HRM in epigenetics

Cooperation:

- ❖ Persian Association for Cancer Research (PACR) of Tehran university
- ❖ Rheumatology research center of Shariati hospital
- ❖ Bedune marz researcher center

- ❖ Genetic laboratory of Tabriz Medical University
- ❖ Genetic laboratory of medical genetic department of Tehran University of medical science

Researches :

Past Research :

- ✚ **Dr. Davatchi F. :** WHO- ILAR COPCORD Study (Stage 1, Urban Study) in Iran , 2004 - 2006.
- ✚ **Dr. Tehrani - Banihashemi A. :** Frequency of usage implementation medicine and traditional methods in the population of Tehran , 2006.
- ✚ **Dr. Mohaddes M. :** A study on association of rs13266634(C/T) polymorphism in *SLC30A8* gene with type 2 diabetes mellitus in the population of Eastern Azerbaijan province
- ✚ **Dr. Mohaddes M. :** Hypermethylation in promoter region of *GSTP-1* gene is associated with tumor metastasis in breast cancer carcinom
- ✚ **Dr. Mohaddes M. :** Hypomethylation in promoter region of *E-Cadherin* gene is associated with tumor metastasis in breast cancer carcinoma.
- ✚ **Dr Mehdipour:** Mehtylation assessment of three cell cycle gene in brain tumors
- ✚ **Dr Modarressi:** Production of monoclonal antibody against 5-methylcytosine

Research's Under Work

- ✚ **Dr Modarressi:** Production of monoclonal antibody against 5-methylcytosine
- ✚ **Dr Mehdipour:** Analysis of cell cycle genes methylation status in CVS samples
- ✚ **Dr Modarressi:** Assessment of gene expression in Hela and HT-29 cell lines following treatment with probiotics
- ✚ **Dr modarressi:** Methylation analysis of two tumor suppressor genes in oral squamous carcinoma

Publications:

Book:

- 1) Genetics for Exam, complete and rapid review on genetics resources accompanying previous master science exams tests, under supervision of **Dr S.zeinali. Medical genetics PHD, associated professor in pastuer institute of Iran** .(This book has been written in Persian language)
- 2) Signaling pathways of diseases (translation to Persian), under observation of **Dr N.Zarghami, research and education assistant of new science faculty of Tabriz university of medical science**.
- 3) Telomere territory and cancer (In English). Edited by Dr Parvin Mehdipour. Springer publications. 2013
- 4) Epigenetics territory and cancer (In English). Edited by Dr Parvin Mehdipour. Springer publications. 2015
- 5) Human molecular genetics By Tom Strachan, Andrew Read (translation to Persian) 2th Edition. Etminan publication

Papers

- ✓ The Soluble Carrier 30 A8 (SLC30A8) gene Polymorphism and risk of diabetes mellitus type 2 in eastern Azerbaijan population of Iran.
- ✓ Association of CD58 Polymorphism with Multiple Sclerosis and Response to Interferon β Therapy in A Subset of Iranian Population. Cell J. 2015 Winter; 16(4):506-13.
- ✓ Mutation analysis of androgen receptor gene: multiple uses for a single test. 2014 Dec 1; 552(2):234-8.
- ✓ Analysis of *dystrophin* gene in Iranian Duchene and Becker muscular dystrophies patients and identification of a novel mutation. Neurological sciences.

- ✓ Case report of a PKU patient with *PAH* gene deletion: getting closer approach in genetic counseling of metabolic disorders. Iranian Red Crescent Medical Journal (under publication).
- ✓ Epigenetic control of cell cycle guardian molecule: An obscure correlation between promoter methylation and expression. Lancet journal of oncology (under publication).
- ✓ Linking ATM Promoter Methylation to Cell Cycle Protein Expression in Brain Tumor Patients: Cellular Molecular Triangle Correlation in ATM Territory. [Mol Neurobiol.](#) 2014 Aug 27.
- ✓ The Role of CD14 and CTLA4 Gene Polymorphisms in Risk of Celiac Disease among Patients of Iranian ethnicity. Cell J. 2014 Summer;16(2):171-8
- ✓ A comprehensive focus on global spectrum of BRCA1 and BRCA2 mutations in breast cancer. Biomed Res Int. 2013;2013:928562.
- ✓ Key Role of Promoter Methylation and Inactivation of MCPH1 Gene in Brain Tumors. J Neurol Res. 2014;4(5-6):133-138
- ✓ Evaluation of methylation status in glutathione S-transferase P1(GSTP1) gene promoter in human breast cancer and its relation to tumor grade and stage. Research Journal of Chemistry and Environment. Volume 15 - Number 2
- ✓ Evaluation of methylation modification in E-cadherin gene and its application in the improvement of breast cancer. African journal of

pharmacy and pharmacology.Vol.5(16), pp. 1857 - 1862 , October 2011

- ✓ Introducing A New And Simple Protocol For Capillary Electrophoresis Of Double Strand DNA. Journal of Sciences, Islamic Republic of Iran 25(4): 305 - 308 (2014)
- ✓ Dual anti-metastatic and anti-proliferative activity assessment of two probiotics on HeLa and HT-29 cell lines, Cell Journal , Vol: 18, No: 2, Summer 2016
- ✓ مروري بر روش هاي غير تهاجمي غربالگري سندرم داون از طريق خون مادر.

مجله ژنتیک نوین

-تشخيص و آزمایشگاه استفاده از نانوذرات طلا متصل به آنتي فيبرونکتين براي تشخيص سرطان ريه. فصلنامه

14 شماره- 1390 زمستان

Oral presentations

- ✓ The role of CD14 and CTLA4 gene polymorphisms in risk of celiac disease among a subset of Iranian population. 12th international congress of immunology and allergy of Iran.
- ✓ Implementation of cell free fetal DNA in prediction of various prenatal morbidities and mortalities. 6th national congress of reproductive and infertility.
- ✓ New insights in to the role of epigenetic abnormalities in embryonic development and pregnancy outcome. 3th Iranian Medical Genetics congress.
- ✓ New avenue toward non-invasive prenatal diagnosis employing nanotechnology. 6th international congress of Laboratory and clinic.
- ✓ Implicating of gold nanoparticle for detection of urinary PSA: A new window toward home based screening of prostate cancer.

Posters:

- ✚ Study on association of rs13266634(C/T) polymorphism in SLC30A8 gene with type 2 diabetes mellitus in the population of Eastern Azerbaijan province. International endocrine and metabolism congress, Esfahan.2010.
- ✚ 3) SLC30A8: a genetic bridge between diabetes mellitus type 1 and type 2. 2th medical genetics congress.2011 Jun. Tehran.
- ✚ What is the best choice of carrier in monoclonal antibody production? A new avenue toward better immunization against desired antigen. 12th international congress of immunology and allergy of Iran.
- ✚ Hypermethylation in promoter region of E cadherin gene is associated with tumor metastasis in breast cancer carcinoma. European Human Genetics Conference 2010 in Gothenburg. poster board number: P06.030.
- ✚ Perturbation in microtubules dynamic instability: a mechanism proposed for toxicity behind AuNPs. Iran Nano Safety Congress 2014.
- ✚ A new avenue in understanding the genetic of diabetes mellitus type 2. 2th Iranian Medical Genetics congress.
- ✚ Integration of genetic science in health system. 2th Iranian Medical Genetics congress.
- ✚ High concentration of vitamin C induce oxidative stress in blood. The 11th International Congress of Iranian Society of Toxicology.

Skills:

Lab Technical:

- DNA extraction
- PCR (Polymerase Chain Reaction)
- PCR - RFLP
- Bisulfitation
- RNA extraction and cDNA synthesis

- Real-time PCR and analysis
- Methylation specific PCR(MSP)
- Methylated DNA immunoprecipitation (MeDIP)-Real time PCR
- Cell culture
- Karyotype analysis
- Nanoparticle synthesis and biological conjugation
- Myeloma fusion and hybridoma cell production
- Capillary electrophoresis
- PCR-sequencing
- Bisulfite-sequencing
- Western blotting
- ELISA

Computer skills:

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Photoshop
- Adobe reader Pro
- EndNote software
- Chromas software
- Sequencing analysis

Languages :

- Farsi

- English

- Arabic

Education background:

- 1)English MSc exam of health ministry
- 2)MSc exam preparation for medical genetics
- 3)license exam preparation for midwifery
- 4) Sundries single education in genetics and biology
- 5)Practical cytogenetics in MSc of human genetics grade
- 6) Practical cytogenetics in PhD grade of medical genetics
- 7) Practical and theoretical education of cell culture in PhD grade of medical genetics

Referenses :

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