Curriculum Vitae

Maryam Rezazadeh

Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran

E-mail: Rezazadehma@tbzmed.ac.ir

Telephone: +98 411 35262255

Mobile: +98-9144143096

Personal

Born Dec, 1984, Tabriz, Iran

Academic Background

- PhD in Medical Genetics, 2011-2015

Genetics Research Center, University of Social Welfare & Rehabilitation Sciences, Tehran, Iran

Thesis: Functional and evolutionary analysis of the human CYTH4 core promoter GTTT repeat.
Supervisor: Mina Ohadi

- M.Sc. in Human Genetics 2009 - 2011

Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran

Supervisor: Mojtaba Mohaddes Ardebili

Thesis: Association study of inflammation pathway genes (TNF-α, CCR2 and CCR5) variations

with risk of sporadic Alzheimer's disease in the population of Eastern Azerbaijan

- B.Sc. in Medical Laboratory Sciences 2004 - 2008

Paramedical Faculty, University of Shahid Beshti, Tehran

Professional Experience

1) Member of academic board, Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran, *2008 – Present*

2) Division of Medical Genetics, Tabriz Children's Hospital, University of Medical Sciences, Tabriz, Iran, 2016 – Present

3) Supervisor of Molecular Genetics Lab, Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran, *2008 – 2015*

4) Supervisor of Cytogenetic Lab, Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran, *2008 – 2015*

Selected Publications

1. **Rezazadeh M,** Hosseinzadeh H, Moradi M, Salek Esfahani B, Talebian S, Parvin S, Gharesouran J. Genetic discoveries and advances in late-onset Alzheimer's disease. J Cell Physiol. 2019 Feb 20. doi: 10.1002/jcp.28372.
2. Parvin S, **Rezazadeh M,** Hosseinzadeh H, Moradi M, Shiva S, Gharesouran J. The Neuronal Ceroid Lipofuscinoses-Linked Loss of Function CLN5 and CLN8 Variants Disrupt Normal Lysosomal Function. Neuromolecular Med. 2019 Mar 27. doi: 10.1007/s12017-019-08529-7.
3. Talebian S, Gharesouran J, Ghafouri-Fard S, Esfahani BS, Arsang-Jang S, Omrani MD, Taheri M, **Rezazadeh M**. Assessment of expression of RELN signaling pathway in multiple sclerosis patients. Immunobiology. 2019 Feb 12. pii: S0171-2985(19)30010-5. doi: 10.1016/j.imbio.2019.02.007.
4. **Rezazadeh M**, Gharesouran J, Moradi M, Noroozi R, Omrani MD, Taheri M, Ghafouri-Fard S. Association study of ANRIL genetic variants and multiple sclerosis. Journal of Molecular Neuroscience. 2018 Apr 11.
5. **Rezazadeh M,** Khorrami A, Yeghaneh T, Talebi M, Kiani SJ, Heshmati Y, Gharesouran J. Genetic Factors Affecting Late-Onset Alzheimer's Disease Susceptibility. Neuromolecular Med. 2015 Nov 9. DOI 10.1007/s12017-015-8376-4.
6. **Rezazadeh M**, Gharesouran J, Movafagh A, Taheri M, Darvish H, Emamalizadeh B, Shahmohammadibeni N, Khorram Khorshid HR, Behmanesh M, Sahraian MA, Ohadi M. Dominant and Protective Role of the CYTH4 Primate-Specific GTTT-Repeat Longer Alleles Against Neurodegeneration. J Mol Neurosci. 2015 Apr 1. DOI 10.1007/s12031-015-0542-5.
7. **Rezazadeh M**, Gharesouran J, Khorram Khorshid HR, Biglarian A, Ohadi M. A primate-specific functional GTTT-repeat in the core promoter of CYTH4 is linked to bipolar disorder in human. Prog Neuropsychopharmacol Biol Psychiatry. 2015 Jan 2;56:161-7. DOI: 10.1016/j.pnpbp.2014.09.001.
8. **Rezazadeh M**, Sohrabifar N, Jafari H, Mohaddes Ardebili SM, Gharesouran J. A study on association of polymorphisms in Calpain10 AND TCF7L2 genes with Type 2 Diabets mellitus. GENETIKA, Vol. 47, No.1, 161-170, 2015. DOI: 10.2298/GENSR1501161R.
9. Ohadi M, Valipour E, Ghadimi-Haddadan S, Namdar-Aligoodarzi P, Bagheri A, Kowsari A, **Rezazadeh M,** Darvish H, Kazeminasab S. Core promoter short tandem repeats as evolutionary switch codes for primate speciation. Am J Primatol. 2015 Jan;77(1):34-43. doi: 10.1002/ajp.22308. Epub 2014 Aug 5.
10. Gharesouran J, **Rezazadeh M,** Khorrami A, Talebi M. Genetic evidence for the involvement of variants at APO E, BIN1, CR1 and PICALM Loci in risk of late-onset Alzheimer's disease and evaluation for interactions with APOE genotypes. J Mol Neurosci, July 2014, DOI 10.1007/s12031-014-0377-5.
11. 8. Gharesouran J, **Rezazadeh M,** Ghojazadeh M, Mohaddes Ardebili SM. Mutation screening of familial mediterranean fever in the Azeri Turkish population: genotype-phenotype correlation and the clinical profile variability. Genetika 10/2014; 46(2):611-620.
12. 9. Gharesouran J, **Rezazadeh M**, Mohaddes Ardebili S.M. Investigation of five polymorphic DNA markers associated with Late Onset Alzheimer Disease. Genetika, 2013, Vol 45, No. 2, 503-514.
13. 10. Gharesouran J, **Rezazadeh M**, Ghojazadeh M, Mohaddes Ardebili S.M. Association of CALHM1 Gene Polymorphism with Late Onset Alzheimer Disease. Middle East J Med Genet 2013, 2(2):50-54.
14. 11. Mohaddes Ardebili SM, **Rezazadeh M,** Gharesouran J, Yeghaneh T, Farhoudi M, Ayromlou H, Talebi M and Ghojazadeh M. Association of CCR2 Gene but not CCR5 Gene Polymorphisms with Alzheimer's Disease. Journal of Sciences, Islamic Republic of Iran: 2011. 22(2): 111-116.
15. 12. Mohaddes Ardebili S.M, Yeghaneh T, Gharesouran J, **Rezazadeh M,** Farhoudi M, Ayromlou H, Talebi M and Ghojazadeh M. Genetic association of TNF-α-308 G/A and -863 C/A polymorphisms with late onset Alzheimer's disease in Azeri Turk population of Iran. J Res Med Sci, 2011; Vol 16, No 8.

Selected Presentations and Abstracts in Congress

1. Talebian Sh, Taheri M, Gharesouran J, Omrani MD, Rezazadeh M. Reelin (RELN): Neurodevelopmental key factor key factor in the pathogenesis of multiple sclerosis. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2479-ESHG.

2. Parvini Sh, Gharesouran J, Mohsen M, Rezazadeh M. Novel deletion mutation for CLN8 subtype of neuronal ceroid lipofuscinoses disorders. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2442-ESHG.

3. Mohsen M, Taheri M, Gharesouran J, Rezazadeh M. Relationship between frequency of NR3C1 and GAS5 gene polymorphisms and multiple sclerosis. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2496-ESHG.

4. Javadlar M, Gharesouran J, Abdi Sh, Nasiri F, Mohsen M, Rezazadeh M. Role of BAALC and RUNX1 polymorphisms in prognosis of acute myeloid leukemia. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2322-ESHG.

5. Nasiri F, Gharesouran J, Abdi Sh, Javadlar M, Abdi Sh, Mohsen M, Rezazadeh M.Mutational profiling of GAS5 and NR3C1 polymorphisms in acute myeloid leukemia. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2145-ESHG

6. Abdi Sh, Gharesouran J, Nasiri F, Javadlar M, Mohsen M, Rezazadeh M. Assessment of WT1 & MEG3 polymorphisms with prognosis in patients with acute myeloid leukemia. European Human Genetics Conference, June 16-19, 2018 in Milan, Italy. Control No. 2018-A-2072-ESHG

7. Mohsen Moradi1, Leila Vahedi2, NoushinSorkhkohAzari3, Jalal Gharesouran4, siamakshiva5, Maryam Rezazadeh4. Costello syndrome: case report of rare disorder in Iranian Azari Turkish population. 6thNational Seminar on Genetic Counselling and Prevention of Disability

8. Gharesouran J, Mohaddes SM, **Rezazadeh M,** Yeghaneh T. Genetic association of CCR2 & CCR5 polymoephisms with Alzheimer's disease. European Human Genetics Conference, June 12-15, 2010 in Gothenburg, Sweden.

9. Gharesouran J, Mohaddes SM, Taghizadeh M, **Rezazadeh M**, Yeghaneh T. Genetic variation at the brain calcium channel, CALHM1, in Alzheimers disease. 11th Congress of Iranian Genetics Society, 22-24 May 2010 in Tehran, Iran.

10. Gharesouran J, Mohaddes S.M, Taghizadeh M, **Rezazadeh M,** Yeghaneh T. Association between the Polymorphism of SORL1 and Alzheimer s disease. 11th Congress of Iranian Genetics Society, 22-24 May 2010 in Tehran, Iran.

11. Gharesouran J, Mohaddes S.M, Taghizadeh M, Davoudi Nejad L, **Rezazadeh M**, Yeghaneh T. CALHM1, a novel gene to blame in Alzheimer's disease. Journal of the Iranian Chemical Society. Vol 6, Suppl., Nov 2009 (ISSN: 1735-207X).

12. Mohaddes Ardebili SM, Gharesouran J, **Rezazadeh M,** Yeghaneh T. Role of chemokine receptors in Late-onset Alzheimer's disease. Journal of the Iranian Chemical Society. Vol 6, Suppl., Nov 2009 (ISSN: 1735-207X).

13. Mohaddes Ardebili SM, Gharesouran J**,** Yeghaneh T**, Rezazadeh M**. Tumour necrosis factor-α gene promoter variation in Alzheimer's disease. Journal of the Iranian Chemical Society. Vol 6, Suppl., Nov 2009 (ISSN: 1735-207X).

Works in Progress

1. Bioinformatics studies
2. Molecular cloning, cell culture and genetic engineering techniques.
3. Investigating the role of mir-330 by starting the transient siRNA system in breast cancer cell lines and comparison of different methods of gene expression to study knockdown (Real time PCR, Northern blot).
4. Relationship between new candidate genes and risk of late Alzheimer's disease.
5. Relationship between new candidate genes and risk of late Multiple Schlerosis disease.

Research Interests

The genetic landscape of neurodegenerative disorders to identify novel loci

Mechanisms of gene regulation and expression in cancer

Stem Cell Therapy

Gene therapy

Techniques

1. Basic Laboratory Skills (Multiplex PCR, ARMS PCR, Restriction Enzyme Digestion, SSCP)
2. Gene expression analysis (qRT-PCR)
3. Linkage Analysis
4. Sequencing (bisulfate, next-generation, whole-exome)
5. Gel Shift and Luciferase assay
6. Gene Cloning methods and screening of different clones by Colony PCR
7. Southern Bolting
8. Northern Bloting
9. Western Bloting
10. Cell and Tissue Culture methods
11. Transfection by Electroporation, Liposome and Lentivirus Vector system
12. siRNA Technology
13. MLPA and MS-MLPA
14. QF-PCR

Computer Skills

- More than basic and routine skills in using few operating systems and many soft wares
- DNA analyzing computer soft wares (Mapdraw, Megalign, Editseq, DNAsis, DNAMAN, Gene runner and Seqman) and online soft wares
- Word Processing, Microsoft Office
- Photoshop, Corel Draw

Languages

English , Turkish, Persian

Teaching Experience

Supervisor of 3 Msc student thesis in Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran.

Course: Human genetics and Immunogenetics, Molecular Genetics, Cancer Genetics, Medical Genetics for Msc students of Human Genetics Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran.

Course: Medical Genetics for Msc students of Human Genetics for PhD students of Molecular Medicine Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran.

Course: Medical genetic disorders

- ✓ Nursing and Midwifery Faculty, University of Medical Sciences, Tabriz, Iran.
- ✓ Rehabilitation Faculty, University of Medical Sciences, Tabriz, Iran.
- ✓ Paramedical Faculty, University of Medical Sciences, Tabriz, Iran.
- ✓ Health and Nutrition Faculty, University of Medical Sciences, Tabriz, Iran.

Course: Molecular genetics and genetic engineering techniques for Msc students of Human Genetics and PhD students of Molecular Medicine Department of Medical Genetics, Faculty of Medicine, University of Medical Sciences, Tabriz, Iran.

Course: Genetic counseling and human genetics for Msc students of Nursing and Midwifery Faculty, University of Medical Sciences, Tabriz, Iran.