In the name of God

CURRICULUM VITAE

Name and surname: Arezou Sayad

Nationality: Iranian

Address (work): Medical Genetics Department, Faculty of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, 1985-717443, Iran

Academic Rank: Associate Professor

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E.mail: ar.sayad@yahoo.com, ar.sayad@sbmu.ac.ir

Date of birth: Aug. 1983

Marital status: Married

Degree: Ph.D. of Medical Genetics, School of Medicine, Tarbiat Modares University, Tehran, Iran.

Ph.D. Thesis: The association of the HLA-DRB and HLA-DQB genes and amino acid analyses of the DRβ, DQβ molecules in Iranian Type 1 Diabetes mellitus patients.

Current Status: Associate Professor, Department of Medical Genetics, Faculty of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, 1985-717443, Iran.

Operation of Workshop

1. Principle of HLA-Typing, 2012.
2. Serology HLA-Typing, 2013.
3. Bioinformatics, 2013.
4. Molecular HLA-Typing (Low resolution), 2013, 2014.
5. Molecular HLA-Typing (High resolution), 2014.
6. Molecular HLA-Typing (Low-Intermediate resolution), 2018.
7. The best related donor selection, 2019.
8. Stem Cell Donor Network, 2020.
9. The best un-related donor selection, 2020.
10. Stem Cell Donors Registry Strategies, 2021.
11. Donor recruitment in Stem cell banks, 2021

WORKSHOPS AND TRAINING COURSES

1. Methods in Biotechnology, 2006, Pasteur Institute, Tehran, Iran.
2. Advance Search, 2006, Tehran University of Medical Sciences, Tehran, Iran.
3. Bioinformatic, 2006, Pasteur Institute, Tehran, Iran.
4. Advanced Techniques in Biotechnology, 2006, Pasteur Institute, Tehran, Iran.
5. End Note, 2006, Iranian Biological Resource Center, Tehran, Iran.
6. Cell Culture, 2007, Avicenna Reasearch Institue, Tehran, Iran.
7. Advanced SPSS, 2007, Shahid Beheshti University, Tehran, Iran.
8. MLPA, 2008, Medical Genetics Society, Tehran, Iran.
9. Progeny, 2008, Medical Genetics Society, Tehran, Iran.
10. Peer Review and Critical Appraisa, 2009, Tehran University of Medical Sciences, Tehran, Iran.
11. Quality Control, 2010, Immunology Society, Tehran, Iran.
12. Advanced Sequence Alignmen, 2010, Iranian Biological Resource Center, Tehran, Iran.

13. Advanced Real-Time Interpretation, 2010, Pasteur Institute, Tehran, Iran.
14. Quality Management System In Lab, 2011, Pathology Society, Tehran, Iran.
15. Advanced Statistical Analisis in Medical Research, 2011, Royan Institute, Tehran, Iran.
16. Advanced Article Reviewing, 2012, Tehran University of Medical Sciences, Tehran, Iran.
17. Advanced Searching, 2012, Tehran University of Medical Sciences, Tehran, Iran.
18. Lab Safety, 2012, Iranian Biological Resource Center, Tehran, Iran.
19. MicroRNAs, 2013, Royan Institute, Tehran, Iran.
20. DNASIS Max3, 2013, Pasteur Institute, Tehran, Iran.
21. RNA-Seq and Exome Sequencing: Applications and Data Analysis, 2014, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran.
22. Research Methodology, 2014, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
23. Cancer Registry, 2014, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
24. Course Planning, 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
25. Small Group Teaching, 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

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Thesis Supervisor

1. Expression Profile of Long non-Coding RNAs and mRNAs involved in NF-KB pathway in patients with demyelinating polyneuropathy compared to control group. 2021, **Ph.D. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
2. Association of HLA-A gene and ALL Disease. 2021, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
3. Expression analysis of NF-κB associated long non-coding RNAs :ANRIL, ADINR, NKILA, HNF1A-AS1 and H19 in Bipolar patients in comparison to control group. 2021, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
4. Association of HLA-A gene and ALL Disease. 2021, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.

5. Investigation of expression of long non-coding RNAs in differentiation pathway of Tcells in patients with Multiple Sclerosis. 2021, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
6. Association of HLA-A gene and ALL Disease. 2021, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
7. Association of HLA-A gene and aplastic anemia in Iranian patients. 2020, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
8. Association of HLA-B gene and aplastic anemia in Iranian patients. 2020, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
9. Association between HLA-B and stroke in Iranian Patients. 2019, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
10. Association between HLA-A and stroke in Iranian Patients. 2019, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
11. Expression analysis of HULC, SPRY4-IT, LINC-ROR, DSCAM-AS1, BANCR, PVT1, CCAT1, TINCR and CASC2 in patients with immune-mediated polyneuropathy in comparison to control group. 2019, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
12. Association between HLA-DRB1 and stroke in Iranian Patients. 2019, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
13. Association of HLA-DRB1 gene and aplastic anemia in Iranian patients. 2019, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
14. Expression Profile and Promoter Methylation Pattern of Long non-Coding RNAs involved in Neurogenesis and NF-κB pathway in Refractory and non-Refractory Epileptic Patients compared to control group. 2018, **Ph.D. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
15. Expression Profile of Long non-Coding RNAs involved in NF-κB pathway in axial spondyloarthritis patients. 2018, **Ph.D. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
16. Expression analysis of Bcl2, caspase 2 and caspase 8 from apoptosis pathway and the related lncRNAs (PANDA, NEAT1, TUG-1, UCA1, CCAT2) in Multiple Sclerosis

copmared to healthy subjects. 2018, **Ph.D. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.

17. Expression analysis of GAS5, MALAT1, OIP5-AS and HOTAIRM1 long non-coding RNAs and NR3C1, AGO2, HuR, CSTF2, WDR33 and CPSF7 target genes in Iranian multiple sclerosis patients. 2018, **Ph.D. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
18. Expression analysis of lncRNA TUG1, FAS-AS1, NEAT1, GAS5, OIP5-AS1 in Guillain-Barre patients in comparing to control group. 2019, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
19. Expression analysis of IL-2, IL-4, IL-6, IL1-B, IFN-γ, TNFα, TGF-β, IL-17, IL-10 and IL-8 in Guillain-Barre patients. 2019, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
20. Investigating the expression of DISC2 and MALAT1 long noncoding RNAs and DISC1, NLGN1 target genes in ASD patients in comparison to normal controls. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
21. The association of the long non-coding RNA HOTAIR and HAR1a genes of dopaminergic system with MDD, ADHD, Bipolar disorder, Addiction and Schizophrenic disorders. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
22. The association of the long non-coding RNA PINK1-AS and BC200 genes of dopaminergic system with MDD, ADHD, Bipolar disorder, Addiction and Schizophrenic disorders. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
23. Expression of MEG3, HOXA-AS2, SPRY4-IT1 and Linc-ROR in patients with refractory epilepsy compared to control individuals. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
24. Expression Analysis of BDNF-AS Long Non-coding RNA and BDNF target gene in Iranian Multiple Sclerosis Patients. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
25. Expression Analysis of IFNG-AS1 and GSTT1-AS1 Long Non-coding RNAs and IFNG and TNF target genes in Iranian Multiple Sclerosis Patients. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.

26. Expression analysis of VEGF-A and FLT1 in Iranian patients with multiple sclerosis. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
27. Investigating expression of STAT4 and STAT6 in Iranian multiple sclerosis patients. 2018, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
28. Association of HLA-B with Autism disease in Iranian patients. 2018, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
29. Expression analysis of SOCS1, SOCS3 and SOCS5 in Iranian patients with multiple sclerosis. 2017, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
30. Association of HLA-DRB1 with Autism disease in Iranian patients. 2017, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
31. Investigating the expression of VRK2 gene in the patients with multiple sclerosis, epilepsy and schizophrenia comparing to healthy individuals. 2017, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
32. Association of HLA-A with Autism disease in Iranian patients. 2017, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
33. Investigating the expression of IFNAR1 gene in Iranian Multiple Sclerosis (MS) patients. 2017, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
34. Investigating the expression of STAT, STAT2 and STAT3 genes in Iranian Multiple Sclerosis patients. 2017, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
35. Investigating the expression of IFNAR2.1 gene in Iranian Multiple Sclerosis (MS) patients. 2017**, MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
36. Expression of GRIN2B, BDNF and IL1beta in patients with epilepsy compared to healthy controls. 2017, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
37. Investigating the expression of IFNAR2.3 gene in Iranian Multiple Sclerosis (MS) patients. 2017, **MD. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
38. Investigation of Gene Expression and promoter region of MXA (Myxovirus Resistance A) and expression of CD95L, MMP9, TIMP genes and HLA-A, B, DRB Typing in beta-

Interferon responder and non-responder Iranian Multiple Sclerosis patients. 2016, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.

39. Expression of TNF-related apoptosis inducing ligand (TRAIL) gene in beta-Interferon responder and non-responder Iranian Multiple Sclerosis patients. 2016, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
40. Investigating the expression of VDR (Vitamin D Receptor) and CYP24A1(Cytochrome P450, family 24, subfamily A, polypeptide 1) genes in Iranian Multiple Sclerosis patients. 2016, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
41. Methylation analysis of tumor suppressor gene $p15^{INK4b}$ with coronary artery disease in Iranian patients. 2015, **M.Sc. Degree**. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
42. Expression of VDR, CYP24A1 and CYP27B1 genes in Iranian chizophrenia patients. 2017, **M.Sc. Degree**. Yazd University of Medical Sciences, Yazd, Iran.
43. Expression of FOXP3 gene in Iranian Multiple Sclerosis patients. 2017, **M.Sc. Degree**. Azad University, Tehran, Iran.
44. Investigation of IL4 and IL6 gene expression in Iranian patients with Multiple Sclerosis compared to healthy group. 2017, **M.Sc. Degree**. Azad University of Medical Sciences, Tehran, Iran.
45. Expression of BACE1 gene in Iranian chizophrenia patients. 2016, **M.Sc. Degree**. Azad University of Medical Sciences, Tehran, Iran.
46. Expression of MMP1 and TIMP1 genes in Iranian chizophrenia patients. 2016, **M.Sc. Degree**. Azad University of Medical Sciences, Tehran, Iran.
47. Expression of RAGE gene in Iranian chizophrenia patients. 2016, **M.Sc. Degree**. Azad University of Medical Sciences, Tehran, Iran.
48. Expression of CYP27B1 gene in Iranian Multiple Sclerosis patients. 2015, **M.Sc. Degree**. Azad University, Tehran, Iran.
49. Expression of TIMP (tissue inhibitor matrixmetalloproteinas) gene in Iranian Multiple Sclerosis patients. 2015, **M.Sc. Degree**. Azad University, Tehran, Iran.
50. Expression of CD95 Ligand (CD95L) gene in Iranian Multiple Sclerosis patients comparing to control group. 2015, **M.Sc. Degree**. Azad University, Tehran, Iran.

51. Investigation of the expression of Cyfip1gene (Cytoplasmic FMR1 interacting protein 1) in patients with schizophrenia in comparison with control group. 2015, **M.Sc. Degree**. Azad University, Tehran, Iran.
52. Investigation of RORA gene expression in Iranian Multiple Sclerosis patients. 2015, **M.Sc. Degree.** Azad University, Tehran, Iran.
53. Expression of MMP9 gene in Iranian Multiple Sclerosis patients. 2014, **M.Sc. Degree**. Azad University, Tehran, Iran.
54. Early diagnosis of aneuploidy by cell free fetal DNA. 2013, **M.Sc. Degree**. Gilan University of Medical Sciences, Guilan, Iran.
55. The association of HLA-DRB1 gene polymorphisms with acute lymphoblastic leukemia (ALL) in Iranian patients. 2012, **M.Sc. Degree**. Payame noor University, Tehran. Iran.
56. The association of HLA-A and -B gene polymorphisms with acute lymphoblastic leukemia (ALL) in Iranian patients.2012, **M.Sc. Degree**. Payame noor University, Tehran. Iran.
57. Association of IL2 gene polymorphism and plasma concentration of IL2 and Uric acid in Iranian Multiple Sclerosis patients. 2011, **M.Sc. Degree**. Payame noor University, Tehran. Iran.

Accomplished Projects:

Executive:

1. Expression analysis of NF-κB associated long non-coding RNAs in blood of patients with Parkinson's disease compared to healthy controls. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
2. Investigation HLA, A, B and DRB1 in Gillian barre syndrome patients. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
3. Expression analysis of ZFAS1 long non-coding RNA in epileptic patients. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
4. Investigation of expression of long non-coding RNAs in differentiation pathway of T cells in patients with multiple sclerosis. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

5. Expression Profile of Long non-Coding RNAs involved in Neurogenesis and NF-κB pathway in Refractory and Non-refractory Epileptic Patients. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
6. Expression Profile of Long non-Coding RNAs and mRNAs related to NF-KB pathway in patients with demyelinating Polyneuropathy compared to control group. 2021. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
7. Expression analysis of HULC, SPRY4-IT, LINC-ROR, DSCAM-AS1, BANCR, PVT1, CCAT1, TINCR and CASC2 in patients with polyneuropathy in comparison to control group. 2021. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
8. Expression of FOS,ITPR,RCAN,RGS2, OXTR genes related to Oxytocin pathway in blood and tissue of severe periodontitis patients compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
9. Expression of CASP8, CASP2, BCL2 genes and long non-coding RNA CDK6-AS1, Linc01116, Linc0067, FENDRR in blood and periodontal gingival tissue of severe periodontitis patients compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
10. Expression of STAT (STAT1, STAT2, STAT3, STAT4, STAT5, STAT6), SOCS (SOCS1, SOCS2, SOCS3, SOCS5) and PIAS (PIAS1, PIAS2, PIAS3, PIAS4) gene families related to JAK/STAT pathway in blood and tissue of severe periodontitis patients compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
11. Expression of CEBPA-DT, FBXL19-AS, DILC lncRNAs and CEBPA gene related to NFkb pathway in severe periodontitis patients compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
12. Expression of CYFIP1, KDR, RABGGTA, RABGGTB, FOXD2, GAS8, NNT genes and lncRNAs FOXD2-AS, NNT-AS, GAS8-AS, CCAT1related to inflammation pathway in severe periodontitis patients compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
13. Expression analysis of NF-κB associated lncRNAs in Bipolar patients in comparison to control group. 2021. Shahid Beheshti University of Medical Sciences, Tehran, Iran.

14. Gene expression analysis of NF-κB signaling pathway related long non coding RNAs in blood of migraine patients in Comparison to Control Group. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
15. Association of HLA class I (-A, -B, -C) and HLA-class II (DRB, DQB) haplotypes in Iranian periodontitis patients compared to healthy control group. 2020. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
16. Expression of long non-coding RNA HOTAIRM1 and related genes AGO2,CSTF2,CPSF7,WDR33,HUR1 and NR3C1 in periodontitis patients compared to healthy control. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
17. Expression Profile of IL-1b, IL-2, IL-4, IL-6, IL-8, IL-10, TGFb, TNFa, IFNg Cytokines in tissue and blood of chronic priodontitis patients compared to healthy control. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
18. Expression analysis of Vitamin D pathway genes and it's target lncRNAs in COVID-19 patient. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
19. Investigation the expression of inflammatory cytokine in Guillen barre syndrome patients. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
20. nvestigation of the expression pattern of PVT-1, THRIL and FAS-AS1 lncRNAs in migraine patients with and without aura compared to healthy control. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
21. Expression analysis of PIAS pathway genes in Guillain-Barre patients in comparison to healthy people. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
22. Investigation the expression of PIAS, STAT and SOCS genes in blood of migraine patiensts with aura and without aura compared to healthy controls. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
23. pression analysis of Long Non-Coding RNAs TUG1, FAS-AS1, NEAT1, GAS5, OIP5-AS1 in Guillain-Barre patients in comparing to control group. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
24. Expression Profile and Promoter Methylation Pattern of Long non-Coding RNAs involved in apoptosis pathway in patients with demyelinating Polyneuropathy compared to control group. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

25. The association of the long non-coding RNA HOTAIR and HAR1a genes of dopaminergic system with MDD, ADHD, Bipolar disorder, Addiction and Schizophrenic disorders. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
26. The association of the long non-coding RNA PINK1-AS and BC200 genes of dopaminergic system with MDD, ADHD, Bipolar disorder, Addiction and Schizophrenic disorders. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
27. Expression analysis of IL-2, IL-4, IL-6, IL1-B, IFN-γ, TNFα, TGF-β, IL-17, IL-10 and IL-8 in Guillain-Barre syndrome patients. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
28. Expression analysis of lncRNA TUG1, FAS-AS1, NEAT1, GAS5, OIP5-AS1 in Guillain-Barre patients in comparing to control group. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
29. Association study of PINK1-AS, BC200, HOTAIR and HAR1a polymorphism with MDD, ADHD, Bipolar disorder, Addiction and Schizophrenic disorders. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
30. Association between HLA-DRB1 allele and risk of stroke in Iranian population. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
31. Association between HLA-A allele and risk of stroke in Iranian population. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
32. Association between HLA-B allele and risk of stroke in Iranian population. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
33. Investigating the expression of DISC2 and MALAT1 long noncoding RNAs and DISC1, NLGN1 target genes in ASD patients in comparison to control. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
34. Expression of NNT and NNT-AS1 in patients with refractory epilepsy compared to control individuals. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
35. Evaluation of the gene expression of BACE1, BACE1-AS, DISC1, DISC2, BDNF and BDNF-AS in Thyroid cancer patients. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

36. Expression Analysis of IFNG-AS1, GSTT1-AS1 and BDNF-AS1 Long Non-coding RNAs and IFNG, TNF and BDNF target genes in Multiple Sclerosis Patients. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
37. Expression analysis of SNAP25 and RIT2 and their long noncoding RNAs SNAP25-AS in autistic patients. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
38. Investigating the expression of RORA gene in multiple sclerosis patients compared to healthy subjects. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
39. Expression analysis of the CYFIP1 gene in the blood of autistic and schizophrenic patients. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
40. Association study between the gene polymorphisms of the RORA (rs1639084, rs4774388) gene with Autism patients compared to healthy controls. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
41. Association study of rs1006737 and rs4765905 and rs4765913 polymorphisms in the CACNA1C gene with autism patients compared to control group. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
42. Association analysis of single nucleotide polymorphisms located in the promoter of the MXA gene in responder and non-responder multiple sclerosis patients. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
43. Association study of the polymorphism of SLC18A1 gene with Suicide and non-fatal suicidal behavior comparing to healthy individuals in Iran. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
44. Investigation of GAS5 long-non coding polymorphism in prostate cancer patients. 2017, Urogenital Stem Cell Reasearch Center.
45. The study of association between IL10 gene polymorphisms in prostate cancer patients. 2017, Urogenital Stem Cell Reasearch Center.
46. The study of association between IL4 gene polymorphisms in prostate cancer patients. 2017, Urogenital Stem Cell Reasearch Center.
47. Investigating the expression of STAT1, STAT2, STAT3 and STAT4 genes in Iranian Multiple Sclerosis patients. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

48. Investigation of ANRIL long-non coding RNA polymorphism in prostate cancer. 2017, Urogenital Stem Cell Reasearch Center.
49. Expression comparison of SOCS1, SOCS2 and SOCS3 in Iranian multiple sclerosis patients to control group. 2016, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
50. Expression comparison of VEGF-A and KDR (VEGF receptor A) in Iranian multiple sclerosis patients to control group. 2016, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
51. Expression analysis of VDR, CYP24A1 and CYP27B1 in Iranian patients with multiple sclerosis comparing control group. 2016, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
52. Expression of CD95 Ligand gene in Multiple Sclerosis patients. 2015, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
53. HLA Typing by using SBT (Sequence Base Technique). 2010. Reasearch Center of Tehran Medical Genetics Laboratory. Tehran. Iran.
54. Planning for stablishment of HLA-Bank. 2010. Reasearch Center of Tehran Medical Genetics Laboratory. Tehran. Iran.
55. HLA Typing by using NGS (Sequence Base Technique). 2017. Reasearch Center of Tehran Medical Genetics Laboratory. Tehran. Iran.

Administrative:

56. Investigation of the expression pattern of mTOR-associated lncRNAs in migraine patients with and without aura compared to healthy control. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
57. Investigation of the expression pattern of PIAS1, PIAS2, PIAS3 and PIAS4 genes in migraine patiensts with and without aura compared to healthy controls. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
58. Investigation the association of rs55829688 on GAS5 gene and rs6189/rs6190, rs41423247, rs6195 on NR3C1 gene and rs3087918, rs7158663, rs11160608 on MEG3 and rs16754 on WT1 and rs62527607, rs6999622 on BAALC gene and rs6170222 and

rs13051066 on RUNX1 gene in acute myeloid leukemia patients. 2021, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

59. Investigation the association study of rs1333048 , rs1333045 , rs4977574 and rs10757278 within ANRIL gene in autism patients. 2020. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
60. Investigating HOXA-AS2, Linc-ROR, MALAT1, MEG3, SPRY4-IT1 and UCA1 expression level in epilepsy patients. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
61. nvestigation the expression of Pro and anti inflammatory cytokine genes in blood of migraine patients with aura and without aura compared to healthy controls. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
62. Expression analysis of lncRNAs CCAT1,CCAT2,ANRIL,BANCR,PICART1,MALAT1 and CCHE1 in Guillain-Barre patients in comparing to healtyh control group. 2020, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
63. Detection of new genes and causative mutations in Iranian familial psychiatric patients. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
64. Study of the effect of TGF-beta and inorganic Poly-P on the SMC differentiation potential of the human MSCs alone and simultaneously.2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
65. Expression of long non-coding RNAs MALAT1 and ANRIL in gingival tissues and peripheral blood of priodontitis patients compared to healthy control. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
66. Expression analysis of long non-coding RNAs and pro-inflammatory cytokines involved in the NF-κB pathway in axial spondyloarthritis. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
67. Expression analysis of HULC, AFAP1-AS1,PINK1-AS,GAS8-AS long non-coding RNAs & AFAP1 ,P18 ,PINK1,GAS8 target genes in multiple sclerosis patients. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
68. Promoter Methylation Pattern of Long non-Coding RNAs: H19 and ANRIL in Refractory and Non-refractory Epileptic Patients compared to controls. 2019, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

69. Expression analysis of long non-coding RNAs and pro-inflamatory cytokins involved in NF-κB pathway and NF-κB acitivity in Iranian axial spondyloarthritis patients. 2018. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
70. Expression Analysis of PINK1 and BACE1 Genes and PINK1-AS1 and BACE1-AS1 Long Noncoding RNAs in Iranian Schizophrenia Patients. 2018, Urogenital Stem Cell Reasearch Center, Tehran, Iran.
71. Investigation the expression of Long-Non coding RNAs HOTAIR, THRIL and FAS-AS1 in A.M.L patients compared to healthy subject. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
72. Investigation of H19 long-non coding Polymorphism in Bladder cancer patients. 2018, Urogenital Stem Cell Reasearch Center, Tehran, Iran.
73. Investigation of CBLB and VLA-4 Polymorphisms in Multiple Sclerosis patients, 2018. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
74. Investigation of polymorphisms in the ERMN gene with autism patients compared to control group in Iranian population. 2018, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
75. The study of association between IL6 gene polymorphisms in prostate cancer patients. 2018, Urogenital Stem Cell Reasearch Center, Tehran, Iran.
76. Investigation of gene expression of Farnesyltransferases and Geranylgeranyl transferase I and II in multiple sclerosis patients compared to healthy group. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
77. Association study of the polymorphism of VMAT1 gene with Autism disease in Iran. 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
78. Investigation of HOTAIR long-non coding RNA polymorphism in prostate cancer patients. 2017, Urogenital Stem Cell Reasearch Center, Tehran, Iran.
79. Investigating the expression of DLEU2, GHET1, PVT1, FAS-AS1, THRIL, HOXA-AS1, NEAT1, TUG1, DSCAM-AS1 and HOTAIR in Bladder cancer patients. 2017, Urogenital Stem Cell Reasearch Center, Tehran, Iran.
80. Investigating the relation of the expression of BC200, MALAT1, PVT1, FAS-AS1, THRIL, HOXA-AS1, NEAT1, TUG1, DSCAM-AS1 and HOTAIR Long-non coding

RNAs with breast cancer. 2016, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

81. Determination of IL4, IL6, IL10, IL17 and IFN-δ in responder patients with multiple sclerosis to Cinnovex and non-responders to Cinnovex. 2016, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
82. Expression of IL1β ،IL2 ،IL4 ،IL6 ،IL8 ،IL10 ،IL17 ،TGF-β ،TNF-α و IFN-δ genes in Autism patients. 2016, Hamedan University of Medical Sciences, Tehran, Iran.
83. Expression of IL1β ،IL2 ،IL4 ،IL6 ،IL8 ،IL10 ،IL17 ،TGF-β ،TNF-α و IFN-δ genes in Epileptic patients. 2016, Hamedan University of Medical Sciences, Tehran, Iran.
84. Early diagnosis of aneuploidy by cell free fetal DNA. 2013. Reasearch Center of Tehran Medical Genetics Laboratory. Tehran. Iran.
85. The association of HLA-A, -B, -DRB1 gene polymorphisms with acute lymphoblastic leukemia (ALL) in Iranian patients. 2012. Reasearch Center of Tehran Medical Genetics Laboratory. Tehran. Iran.

Abstracts in Conferences

1. Detection of new allele of HLA-DRB1 gene by High Resolution DNA Sequencing. Mohammad Taghi Akbari, **Arezou Sayad.** 12th national Iranian Genetics congress. May 2012. Abstract ID: 104.
2. The influence of polymorphic position of the HLA-DRB1 and HLA-DQB1 molecules on risk of T1D in Iranian Population. Mohammad Taghi Akbari, Mahdi Zamani, **Arezou Sayad.** 12th national Iranian Genetics congress. May 2012. Abstract ID: 79.
3. The influence of the HLA-DRB1 and HLA-DQB1 genes on risk of T1D in Iranian Population. Mohammad Taghi Akbari, Mahdi Zamani, **Arezou Sayad.** 11th International Congress of Immunology and Allergy. Apr 2012. Abstract ID: 115.
4. The Association of HLA-DRB1 with AML in Iranian Patients. Samira Atash Beik, Mohammad Taghi Akbari, Reza Haji Hosseini, **Arezou Sayad**. 1st National Conference on new finding in Biological Science. Apr 2013. Abstract ID: 23.

5. The Association of interleukin-2 gene polymorphism with multiple sclerosis in Iranian patients. **Arezou Sayad**. 7th international and 12th national congress on Quality Improvement in Clinical Laboratory. Apr 2014. Abstract ID: A-10-117-3.
6. The Association of TNFa Polymorphisms with Multiple Sclerosis in Iranian Patients. **Arezou Sayad**. 7th international and 12th national congress on Quality Improvement in Clinical Laboratory. Apr 2014. Abstract ID: A-10-117-2.
7. Correlation of Uric Acid plasma concentration with multiple sclerosis in Iranian patients. **Arezou Sayad**. 1st international and 13th national Iranian Genetics congress. May 2014. Abstract ID: 1284.
8. Correlation of -308 TNFa Gene Polymorphism with Multiple Sclerosis in Iranian Patients. **Arezou Sayad**. 1st international and 13th national Iranian Genetics congress. May 2014. Abstract ID: 1281.
9. HLA-A*26 and susceptibility of Iranian patients with non-Hodgkine lymphoma. Mohammad Taheri, **Arezou Sayad**. 8th international and 13th national congress on Quality Improvement in Clinical Laboratory. Apr 2015. Abstract ID: P224.
10. The influence of -330 IL2 gene polymorphism and HLA-DRB1*15:01 allele on age at onset in Iranian Multiple Sclerosis patients. Mohammad Taheri, **Arezou Sayad**. 8th international and 13th national congress on Quality Improvement in Clinical Laboratory. Apr 2015. Abstract ID: P358.
11. Fas ligand in Multiple Sclerosis based on gender categories. Tahereh Azimi, Mohammad Taheri, Rezvan Noroozi, **Arezou Sayad**. 12 th MS Congress of Iran. Nov 2015. Abstract ID: P149.
12. Zn, Cu plasma concentration in Multiple Sclerosis and Schizophernia patients. Mohammad Taheri, **Arezou Sayad**. 2nd International Congress of Rare Mineral. Apr 2015. Abstract ID: P103.
13. The Association of HLA class I and class II Antigens with Multiple Myeloma in Iranian Patients. Romina Dastmalchi**, Arezou Sayad**. 1st Afzalpour International Medical Congress- on Pathology. Nov 2015. Abstract ID: 32.
14. The Association of −330 Interleukin-2 Gene Polymorphism with Its Plasma Concentration in Iranian Multiple Sclerosis Patients. Mehdi Toghi, Mohammad Taheri,

Tahereh Azimi, saba manoochehr abadi, anoushe zhand**, Arezou Sayad**. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 25618.

15. The Association of -475 and -631 Interleukin-2 Gene Polymorphism with Multiple Sclerosis in Iranian Patients. Anoushe Zhand, Mohammad Taheri, Tahereh Azimi, Abolfazl Movafagh, Mehdi Toghi, **Arezou Sayad**. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 25617.

16. HLA genes as modifiers of response to IFN-β-1a therapy in relapsing-remitting multiple sclerosis. Mohammad Taheri, Shaghayegh Sarrafzadeh, **Arezou Sayad**, Mehrdokht Mazdeh. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 27792.

17. Dominant and Protective Role of the CYTH4 Primate-Specific GTTT-Repeat Longer Alleles Against Neurodegeneration. Mohammad Taheri, **Arezou Sayad**, Hossein Darvish, Mina Ohadi. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 25603.

18. Vitamin D Receptor Gene Variant and Suseptibility to Parkinson Disease. Saba Manoochehrabadi, Mohammad taheri, mohammad mehdi eftekharian, **Arezou sayad**. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 25613.

19. CD95L in multiple sclerosis patients: Results from a case-control study. Tahereh Azimi, Rezvan Noroozi, Mohammad Mahdi Eftekharian, **Arezou Sayad**, Mohammad Taheri. 4th congress of Basic and clinical Neuroscience. Dec 2015. Abstract ID: 25611.

20. TRAIL gene expression analysis in Multiple sclerosis patients. Shaghayegh Saraf zadeh, **Arezou Sayad**. . 1st international and 9th national Iranian Neurogenetics Congress. March 2016. Abstract ID: Po:038.

21. IL7RA gene variants are correlated with gene expression in Iranian MS patients, Mohammad Taheri, GHasem Solgi, Rezvan Norouzi, **Arezou Sayad**. 1st international and 9th national Iranian Neurogenetics Congress. March 2016. Abstract ID: Po:028.

22. Investigating the expression of STAT1 genes in Multiple Sclerosis Patients. Saba Manoochehrabadi, **Arezoo Sayad**, 1st international and 9th national Iranian Neurogenetics Congress. March 2016. Abstract ID: Or: 022.

23. HLA genes as modifiers of response to therapy in multiple sclerosis patients. Mohammad Taheri, Rezvan Noroozi, **Arezou Sayad**. 9th international and 14th national congress on Quality Improvement in Clinical Laboratory. Apr 2016. Abstract ID: P250.

24. Genetics variants of ANRIL gene in Iranian breast cancer patients. Shaghayegh Sarrafzadeh, Mohammad Taheri, Rezvan Noroozi, **Arezoo Sayad**, Soudeh Ghafouri-Fard. West Asian Cancer Conference. Sep 2016. Abstract ID:48.

25. Investigation of the association of HOTAIR single nucleotide polymorphisms and risk of Breast cancer in an Iranian Population. Mohammad Taheri, Shaghayegh Sarrafzadeh, Rezvan Noroozi, **Arezoo Sayad**, Soudeh Ghafouri-Fard. West Asian Cancer Conference. Sep 2016. Abstract ID:70.

26. Investigating the expression of STAT3 genes in Iranian Multiple Sclerosis Patients. Saba Manoochehrabadi, **Arezoo Sayad**, Mohammad Taheri, Mehdi Toghi. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:22

27. The expression analysis of STAT6 gene in Iranian Multiple Sclerosis patients. Mahsa Hatami, Mohammad Taheri, **Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:721.

28. VRK2 gene in neurological disorders: Schizophrenia, Epilepsy and Multiple sclerosis. Tahereh Azimi, **Arezou Sayad**, Mirdavood Omrani. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:553.

29. Expression of GRIN2B, BDNF, and IL1β mRNA in whole blood of patients with Epilepsy in comparison with healthy controls. Anoushe Zhand, **Arezoo Sayad**, Mehrdokht Mazdeh. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:635.

30. Up regulation of MMP9 gene expression in female patients with multiple sclerosis. Shima Yazdandoost Hamedani, Mohammad Taheri**, Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:361.

31. Investigation of RORA Gene Expression in Iranian Multiple Sclerosis (MS) Patients. Sakineh Nayeri, **Arezoo Sayad**, Mohammad Taheri, Vida Hojati. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:262.

32. Up-regulation of MMP9 to TIMP1 gene expression ratio in Schizophrenia patients. Shahrzad Rahimi, **Arezoo Sayad**, Elham Moslemi. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:282.

33. The influence of MMP9 and TIMP1 gene expression in Schizophrenia patients. Shahrzad Rahimi**, Arezoo Sayad**, Elham Moslemi. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:271.

34. Increased expression ratio of matrix metalloproteinase-9 (MMP9) and tissue inhibitor of matrix metalloproteinase (TIMP-1) RNA levels in Iranian multiple sclerosis patients. Shaghayegh Sarrafzadeh, Mohammad Taheri, **Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:480.

35. Interleukin 7 receptor alpha gene variants are correlated with gene expression in patients with relapsing-remitting multiple sclerosis. Shaghayegh Sarrafzadeh, Mohammad Taheri, **Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:481.

36. Myxovirus resistance protein A (MxA) polymorphism is associated with IFNβ response in Iranian multiple sclerosis patients. Mohammad Taheri, Shaghayegh Sarrafzadeh, **Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:362.

37. The importance of VEGF-KDR signaling pathway genes, should not be ignored, when the risk of developing Multiple Sclerosis is taken into consideration. Mohammad Taheri, Shaghayegh Sarrafzadeh, **Arezoo Sayad**. 5th congress of Basic and clinical Neuroscience. Dec 2016. Abstract ID:539.

38. A gender dimorphism in the up-regulation of BACE1 gene expression in Schizophernia. Nafiseh Nafisi-Fard, Akram Sadat Tabatabaei Panah, **Arezou Sayad**. 3th national Biology Sciences of Iran Conference. 2017. Abstract ID: 1126.

39. ANRIL Gene Polymorphism Association with Acute Myeloid Leukemia (AML) in Iranian Population. Iman Azari , Mohammad Taheri , Hamid Fallah , **Arezoo Sayad**. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-026.

40. Gene Expression Analysis of TNF and HNRNPL-Related Immunoregulatory Long Non-coding RNA (THRIL) in Iranian Patients with Acute Myeloid Leukemia. Iman Azari , Mohammad Taheri , Hamid Fallah , **Arezoo Sayad**. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-027.

41. Hamid Fallah, Mohammad Taheri , Iman Azari, **Arezoo Sayad**. ANRIL rs4977574 Polymorphism and Acute Myeloid Leukemia Risk. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-054.

42. Hamid Fallah, Mohammad Taheri , Iman Azari, **Arezoo Sayad**. Association of ANRIL (rs1333045) Gene Polymorphism with the Risk of Acute Myeloid Leukemia. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-055.

43. Hamid Fallah, Mohammad Taheri , Iman Azari, **Arezoo Sayad**. Expression Analysis of HOTAIR lncRNA in Iranian Patients with Acute Myeloid Leukemia. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-056.

44. Mohammad Taheri , Hamid Fallah, Iman Azari, **Arezoo Sayad**. Fas-AS Long Noncoding RNA and Acute Myeloid Leukemia. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Abstract ID: PS-216.

Congresses Attended

1. 7th Congress on Reproductive Biomedicine and 2nd Congress on Stem Cell Biology and Technology. Sep 2006. Tehran, Iran.
2. Neurogenetics Conference. Dec 2010. Tehran, Iran.
3. 2nd Medical Genetics Congress. Jun 2011. Tehran, Iran.
4. 1st congress of Basic and clinical Neuroscience. Nov 2011. Tehran, Iran.
5. Genomic and Complex Disorders Symposium. Nov 2011. Tehran, Iran.
6. Immunogenetics in Primary Immuno-Deficiency Diseases. Feb 2012. Tehran, Iran.
7. 1st National Genetic and Biological Resource Congress. Feb 2012. Tehran, Iran.
8. 5th international and 10th national congress on Quality Improvement in Clinical laboratory. Apr 2012. Tehran, Iran.
9. 11th International Congress of Immunology and Allergy. Apr 2012. Tehran, Iran.
10. 12th national Iranian Genetics congress. May 2012. Tehran, Iran.
11. 1st National Conference on new finding in Biological Science. Apr 2013. Tehran, Iran.
12. 3rd Medical Genetics Congress. May 2013. Tehran, Iran.

13. 1st Simulation Science and Islam Religion symposium. Oct 2013. Tehran, Iran.
14. Diabetes Disease Symposium. Nov 2013. Tehran, Iran.
15. Spiritual Health Seminar. Dec 2013. Tehran, Iran.
16. 6th Congress of IRHRC in Fertility and Infertility, Jan 2014. Tehran, Iran.
17. 7th international and 12th national congress on Quality Improvement in Clinical laboratory. Apr 2014. Tehran, Iran.
18. 1st international and 13th national Iranian Genetics congress. May 2014. Tehran, Iran.
19. 4th annual Medical Morality Congress. Jan 2015. Tehran, Iran.
20. 2nd International Congress of Rare Mineral. Apr 2015. Tehran, Iran.
21. 8th international and 13th national congress on Quality Improvement in Clinical Laboratory. Apr 2015. Tehran, Iran.
22. 11th Royan International Congress on Stem Cell Biology and Technology. Sep 2015. Tehran, Iran.
23. 12 th MS Congress of Iran. Nov 2015. Tehran, Iran.
24. 1st Afzalpour International Medical Congress- on Pathology. Nov 2015. Kerman, Iran.
25. 4th congress of Basic and clinical Neuroscience. Dec 2015. Tehran, Iran.
26. The 17th Royan International Twin Congress. Aug 2016. Tehran. Iran.
27. Genetics in 3rd millennium. 2016. Tehran, Iran.
28. West Asian Cancer Conference. Sep 2016. Tehran, Iran.
29. 5th congress of Basic and clinical Neuroscience. Dec 2016. Tehran, Iran.
30. 1st Festival and International Congress on Stem Cell and Regenerative Medicine. Jul 2016. Tehran, Iran.
31. The 18th Royan International Twin Congress. Sep 2017. Tehran. Iran.
32. 3th national Biology Sciences of Iran Conference. 2017. Tehran, Iran.
33. 2nd Festival and International Congress on Stem Cell and Regenerative Medicine. Jul 2017. Tehran, Iran.
34. The 19th Royan International Twin Congress. Aug 2018. Tehran. Iran.
35. 3th Symposium of Genetics and Stem Cells. 2018. Tehran. Iran.
36. Scientific and Executive Secretary of 3th Symposium of Genetics and Stem Cells. 2018. Tehran. Iran.
37. 15th MS Congress of Iran. Nov 2018. Tehran, Iran.

38. 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Tehran, Iran.
39. Member of National Prize Committee of 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Tehran, Iran.
40. Member of Scientific and Executive Committee of 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Tehran, Iran.
41. Member of International Affairs of 3rd Festival and International Congress on Stem Cell and Regenerative Medicine. Nov 2018. Tehran, Iran.
42. 1st GvHD Symposium. Dec 2018. Tehran, Iran.
43. Member of Scientific Committee of 1st GvHD Symposium. Dec 2018. Tehran, Iran.
44. 7th congress of The Basic and Clinical Neuroscience. Dec 2018. Tehran, Iran.
45. National World Marrow Donor Day Symposium. 2019. Tehran. Iran.
46. The 20th Royan International Twin Congress, Aug 2019. Tehran. Iran.
47. Towards defining the immunogenicity of HLA eplets Webinar. Sep 2020.
48. World Marrow Donor Day Festival. Sep 2020. Virtual.
49. Significance and detection of chimerism after hematopoietic stem cell transplantation Webinar. Oct 2020.
50. New insights from high-resolution KIR sequencing in neurological disease Webinar. Nov 2020.
51. 10th annual Congress of Hematopoietic Stem Cell Transplantation and Cell Therapy. Feb 2021. Tehran. Iran.
52. PIRCHE Epitope Matching in Kidney Transplantation Webinar. Feb 2021.
53. 4th Festival and International Congress on Stem Cell and Regenerative Medicine. April 2021. Tehran, Iran.
54. Characterization of the MHC and KIR in non-human primates using PacBio SMRT sequencing webinar. Jul 2021.
55. Somatic mutation of HLA genes in blood cancer Webinar. May 2021
56. Transplantation-Immunology Symposium. 2021. Tehran. Iran.
57. World Marrow Donor Day Festival. 2021. Virtual.

Honors and Awards

Winner of the award for assistant professors in “Abureihan Research Festival” of Shahid Beheshti University of Medical Sciences

Language Skills:

Persian (mother tongue) and English

Publications:

1. Azimi T, Ghafouri-Fard S, Badrlou E, Omrani MD, Nazer N, **Sayad A**, Taheri M. Abnormal expression of NF-kB related transcriptions in blood of patients with inflammatory peripheral nerve disorders. Metabolic Brain Disease. 2021 Aug; 36(6): 1-8.
2. Gholi pour M, Taheri M, Mehvari Habibabadi J, **Sayad A**, Ghafouri-Fard S. Dysregulation of lncRNAs in autoimmune neuropathies. Scientific Reports, 2021, 11(1), 16061
3. Taheri M, Rad LM, Hussen BM, Nicknafs F, **Sayad A**, Ghafouri-Fard S. Evaluation of expression of VDR-associated lncRNAs in COVID-19 patients. BMC Infectious Diseases. 2021 Dec;21(1):1-8.
4. Behtaji S, Ghafouri-Fard S, **Sayad A**, Sattari A, Rederstorff M, Taheri M. Identification of oxytocin-related lncRNAs and assessment of their expression in breast cancer. Scientific Reports. 2021 Mar 19;11(1):1-7.
5. Gholami L, Badrlou E, Nazer N, Sadeghi G, Haftlang MK, Mirzajani S, Shadnoush M, **Sayad A**, Ghafouri-Fard S. Expression of apoptosome-related genes in periodontitis. Gene Reports. 2021 Jun 1;23:101029.
6. Taheri M, Nicknafs F, Hesami O, Javadi A, Arsang-Jang S, **Sayad A**, Ghafouri-Fard S. Differential expression of cytokine-coding genes among migraine patients with and without aura and normal subjects. Journal of Molecular Neuroscience. 2021 Jun;71(6):1197-204.
7. Ghafouri-Fard S, Hussen BM, Nicknafs F, Nazer N, **Sayad A**, Taheri M. Expression analysis of Protein inhibitor of activated STAT in inflammatory demyelinating polyradiculoneuropathy. Frontiers in Immunology. 2021;12:1627.

8. Sadeghpour S, Ghafouri-Fard S, Mazdeh M, Nicknafs F, Nazer N, **Sayad A**, Taheri M. Over-Expression of immune-related lncRNAs in inflammatory demyelinating polyradiculoneuropathies. Journal of Molecular Neuroscience. 2021 May;71(5):991-8.
9. Safa A, Azimi T, **Sayad A**, Taheri M, Ghafouri-Fard S. A review of the role of genetic factors in Guillain–Barré syndrome. Journal of Molecular Neuroscience. 2020 Oct 7:1-9.
10. Hussen BM, Nicknafs F, Hidayat HJ, **Sayad A**, Ghafouri-Fard S, Taheri M. A Diagnostic Panel for Acquired Immune-Mediated Polyneuropathies Based on the Expression of lncRNAs. Frontiers in immunology. 2021 Feb 23;12:354.
11. Taheri M, Akbari MT, Ostadali M, Hamidieh AA, Fallah H, Shadnoush M, Arsang-Jang S, Ghafouri-Fard S, **Sayad A**. Assessment of association between HLA alleles and acquired aplastic anemia in Iranian population. Ecological Genetics and Genomics. 2021 Feb 1;18:100075.
12. Gholami L, Movafagh A, Badrlou E, Nazer N, Yari M, Sadeghi G, Mirzajani S, Shadnoush M, **Sayad A**, Ghafouri-Fard S. Altered expression of STAT genes in periodontitis. Human Antibodies. 2021 May 19(Preprint):1-8.
13. Ghafouri-Fard S, Hesami O, Nazer N, **Sayad A**, Taheri M. Expression of PIAS genes in migraine patients. Journal of Molecular Neuroscience. 2021 Mar 24:1-7.
14. Ghafouri-Fard S, Hashemi M, Rafigh M, Omrani MA, Hussen BM, **Sayad A**, Taheri M. Altered IFN-γ Levels after Treatment of Epileptic Patients with Omega-3 Fatty Acids. Journal of Molecular Neuroscience. 2021 Feb 12:1-4.
15. Ghafouri-Fard S, Mazdeh M, Nicknafs F, Nazer N, **Sayad A**, Taheri M. Expression analysis of BDNF, BACE1 and their antisense transcripts in inflammatory demyelinating polyradiculoneuropathy. Multiple Sclerosis and Related Disorders. 2021 Jan 1;47:102613.
16. Ghafouri-Fard S, Abak A, Shoorei H, Mohaqiq M, Majidpoor J, **Sayad A**, Taheri M. Regulatory role of microRNAs on PTEN signaling. Biomedicine & Pharmacotherapy. 2021 Jan 1;133:110986.
17. Mirzajani S, Ghafouri-Fard S, Habibabadi JM, Glassy MC, **Sayad A**, Taheri M. Altered ANRIL Methylation in Epileptic Patients. Journal of Molecular Neuroscience. 2021 Jan;71(1):193-9.

18. Safa A, Badrlou E, Arsang-Jang S, **Sayad A**, Taheri M, Ghafouri-Fard S. Expression of NF-κB associated lncRNAs in schizophrenia. Scientific reports. 2020 Oct 22;10(1):1-9.
19. Javadikooshesh S, Alishiri G, **Sayad A**, Taheri M, Bahrami F, Pourghorban P, Mirzajani S, Omrani MD. Peripheral expression of ANRIL is increased in axial spondyloarthritis patients, and particularly in females. Gene Reports. 2020 Dec 1;21:100901.
20. **Sayad A**, Gholami L, Mirzajani S, Omrani MD, Ghafouri-Fard S, Taheri M. Genetic susceptibility for periodontitis with special focus on immune-related genes: A concise review. Gene Reports. 2020 Aug 4:100814.
21. **Sayad A**, Ghafouri-Fard S, Shams B, Arsang-Jang S, Gholami L, Taheri M. Blood and tissue levels of lncRNAs in periodontitis. Journal of cellular physiology. 2020 Dec;235(12):9568-76.
22. Kahaei MS, Ghafouri-Fard S, Namvar A, Omrani MD, **Sayad A**, Taheri M. Association study of a single nucleotide polymorphism in brain cytoplasmic 200 long-noncoding RNA and psychiatric disorders. Metabolic Brain Disease. 2020 Oct;35:1095-100.
23. **Sayad A**, Mirzajani S, Gholami L, Razzaghi P, Ghafouri-Fard S, Taheri M. Emerging role of long non-coding RNAs in the pathogenesis of periodontitis. Biomedicine & Pharmacotherapy. 2020 Sep 1;129:110362.
24. **Sayad A**, Ghafouri-Fard S, Sadeghpour S, Mirzajani S, Taheri M, Arsang-Jang S, Raji MA, Houshmand B, Amid R, Gholami L, Shams B. Dysregulation of GAS5 and OIP5-AS1 lncRNAs in periodontitis. Gene Reports. 2020 Sep 1;20:100712.
25. Ghafouri-Fard S, Noroozi R, Omrani MD, Branicki W, Pośpiech E, **Sayad A**, Pyrc K, Łabaj PP, Vafaee R, Taheri M, Sanak M. Angiotensin converting enzyme: a review on expression profile and its association with human disorders with special focus on SARS-CoV-2 infection. Vascular pharmacology. 2020 Jul 1;130:106680.
26. Gholami L, Ghafouri-Fard S, Mirzajani S, Arsang-Jang S, Taheri M, Dehbani Z, Dehghani S, Houshmand B, Amid R, **Sayad A**, Shams B. The lncRNA ANRIL is down-regulated in peripheral blood of patients with periodontitis. Non-coding RNA research. 2020 Jun 1;5(2):60-6.
27. **Sayad A**, Akbari MT, Ostadali M, Hamidieh AA, Arsang-Jang S, Hajifathali A, Ghafouri-Fard S, Taheri M. Comprehensive assessment of association between HLA

polymorphisms and acute leukemia in Iranian population. Gene Reports. 2020 Jun 1;19:100674.

28. **Sayad A**, Taheri M, Sadeghpour S, Omrani MD, Shams B, Mirzajani S, Arsang-Jang S, Houshmand B, Amid R, Gholami L, Ghafouri-Fard S. Exploring the role of long non-coding RNAs in periodontitis. Meta Gene. 2020 Jun 1;24:100687.
29. **Sayad A**, Akbari MT, Hesami O, Ghafouri-Fard S, Taheri M. Identification of a Mutation in SPG11 in an Iranian Patient with Spastic Paraplegia and Ears of the Lynx Sign. Journal of Molecular Neuroscience. 2020 Feb 10:1-3.
30. **Sayad A**, Shams J, Sarvar SR, Omrani MD, Taheri M, Ghafouri-Fard S. Assessment of association between the rs2270637 polymorphism of VMAT1 gene and risk of bipolar and major depressive disorders. Meta Gene. 2020 Jun 1;24:100667.
31. **Sayad A**, Badrlou E, Ghafouri-Fard S, Taheri M. Association Analysis Between the rs1899663 Polymorphism of HOTAIR and Risk of Psychiatric Conditions in an Iranian Population. Journal of Molecular Neuroscience. 2020 Feb 8:1-6.
32. Azimi G, Ranjbaran F, Arsang-Jang S, Ghafouri-Fard S, Mazdeh M, **Sayad A**, Taheri M. Upregulation of VEGF-A and correlation between VEGF-A and FLT-1 expressions in Iranian multiple sclerosis patients. Neurological Sciences. 2020 Jan 11:1-7.
33. **Sayad A**, Ghafouri-Fard S, Shams B, Arsang-Jang S, Gholami L, Taheri M. Sex-specific up-regulation of p50-associated COX-2 extragenic RNA (PACER) lncRNA in periodontitis. Heliyon. 2020 May 1;6(5):e03897.
34. Mirzajani S, Ghafouri-Fard S, Habibabadi JM, Arsang-Jang S, Omrani MD, Fesharaki SS, **Sayad A**, Taheri M. Expression analysis of lncRNAs in refractory and non-refractory epileptic patients. Journal of Molecular Neuroscience. 2020 May;70(5):689-98.
35. **Sayad A**, Ghafouri-Fard S, Omrani MD, Taheri M. Associations between two single-nucleotide polymorphisms in NINJ2 gene and risk of psychiatric disorders. Journal of Molecular Neuroscience. 2020 Feb;70(2):236-45.
36. Kahaei MS, Ghafouri-Fard S, Namvar A, Omrani MD, **Sayad A**, Taheri M. Associations between an intronic variant in IL-8 gene and risk of psychiatric disorders. Ecological Genetics and Genomics. 2020 Feb 1;14:100050.

37. Fallah H, **Sayad A**, Ranjbaran F, Talebian F, Ghafouri-Fard S, Taheri M. IFNG/IFNG-AS1 expression level balance: implications for autism spectrum disorder. Metabolic brain disease. 2020 Feb;35(2):327-33.
38. **Sayad A**, Dehaghi MO, Taheri M, Fallah H, Arsang-Jang S, Shadnoush M, Ghafouri-Fard S, Hamidieh AA. Identification of HLA-A/B/DRB1 alleles in Iranian patients with Fanconi anemia. Human antibodies. 2020 Jan 1;28(3):221-6.
39. Fallah H, Akbari MT, Mirzajani S, Ranjbaran F, Mehdizadeh B, **Sayad A**, Taheri M. Association between HLA alleles and risk of celiac disease in Iranian patients. Human antibodies. 2020 Jan 1;28(2):123-9.
40. Mostafaee A, Rafiei S, Fazeli Z, **Sayad A**, Rahimi M, Rajabi S, Khamseh F, Shamshirgaran F, Rajabibazl M. The association analysis between rs1544410 and rs10735810 polymorphisms located at VDR gene and susceptibility to Multiple Sclerosis in Iranian population. Gene Reports. 2019 Dec 1;17:100538.
41. Mirzajani S, Ghafouri-Fard S, Habibabadi JM, Arsang-Jang S, Omrani MD, Fesharaki SS, **Sayad A**, Taheri M. Peripheral expression of Rubicon like autophagy enhancer is reduced in epileptic patients. Gene Reports. 2019 Dec 1;17:100539.
42. Namvar A, Taheri M, Kahaei MS, Omrani MD, Moayedi F, **Sayad A**, Ghafouri-Fard S. Association analysis of highly accelerated region 1A variant and risk of psychiatric conditions. Gene Reports. 2019 Dec 1;17:100489.
43. Hashemian F, Ghafouri-Fard S, Arsang-Jang S, Mirzajani S, Fallah H, Mehvari Habibabadi J, **Sayad A**, Taheri M. Epilepsy is associated with dysregulation of long non-coding RNAs in the peripheral blood. Frontiers in molecular biosciences. 2019 Oct 23;6:113.
44. Gharesouran J, Taheri M, **Sayad A**, Mazdeh M, Omrani MD. Integrative analysis of OIP5-AS1/HUR1 to discover new potential biomarkers and therapeutic targets in multiple sclerosis. Journal of cellular physiology. 2019 Oct;234(10):17351-60.
45. **Sayad A**, Taheri M, Arsang-Jang S, Glassy MC, Ghafouri-Fard S. Hepatocellular carcinoma up-regulated long non-coding RNA: a putative marker in multiple sclerosis. Metabolic brain disease. 2019 Aug;34(4):1201-5.
46. **Sayad A**, Taheri M, Azari I, Oskoei VK, Ghafouri-Fard S. PIAS genes as disease markers in bipolar disorder. Journal of cellular biochemistry. 2019 Aug;120(8):12937-42.

47. **Sayad A**, Akbari MT, Inoko H, Khazaei M, Mehdizadeh B, Taheri M, Ghafouri-Fard S. Association between human leucocyte antigen alleles and risk of stroke in Iranian population. International journal of immunogenetics. 2019 Jun;46(3):179-91.
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5. Translation of Human Molecular Genetics by T. Strachan and P. Read Andrew. 2011. Dr Khalili Group Publication. ISBN: 978-600-422-031-6. 1007 Pages.
6. Molecular Biology of Cancer by Lauren Pecorino. 3th ed. 2012. Dr Khalili Group Publication. ISBN: 978-600-422-031-6. 521 Pages.
7. Translation of Cellular and Molecular Immunology, by Abul Abbas Andrew H. Lichtman Shiv Pillai. 7th Ed. 2012. Dr Khalili Group Publication. ISBN: 978-60-6223-31-5. 814 Pages.
8. Gene Cloning and DNA analysis, An introduction by T.A.Brown. 6th ed. 2012. Etminan Publiction. ISBN: 978-964-8607-21-5. 310 Pages.

9. Emery's Elements of medical genetics by Peter D. Turnpennny, Sian Ellard. 14th ed. 2013. Dr Khalili Group Publication. ISBN: 978-600-7888-84-1. 774 Pages.
10. Lewin's genes XI by Jocelyn E. Krebs. 11th ed. 2013. Dr Khalili Group Publication. ISBN: 978-600-422-008-8. 1264 Pages.
11. Micro RNA in Cancers, Suresh Alahari ed. 2013. Dr Khalili Group Publication. ISBN: 978-600-422-009-5. 199 Pages.
12. Genetics and genomics in medicine by T. Strachan. 2015. Dr Khalili Group Publication. ISBN: 978-600-422-094-1. 699 Pages.
13. The Biology of Cancer by Robert A. Weinberg. 2th ed. 2015. Dr Khalili Group Publication. ISBN: 978-600-422-205-1. 1058 Pages.
14. Biobanking in the 21st Century, Advances in Experimental Medicine and Biology, Feridoun Karimi-Busheri ed. 2015. Dr Khalili Group Publication. ISBN: 978-600-422-. 152 Pages.
15. Principals of Cancer genetics by Fred Bunz. 2th ed. 2016. Dr Khalili Group Publication. ISBN: 978-600-422-185-6. 282 Pages.
16. Genomics and Personalized medicine by Michael Snyder. 2016. Dr Khalili Group Publication. ISBN: 978-600-422-285-3. 100 Pages.
17. Stem cell processing Phuc Van Pham Ed. 2016. Dr Khalili Group Publication. ISBN: 978-600-422-101-6. 204 Pages.
18. Emery's Elements of medical genetics by Peter D. Turnpennny, Sian Ellard. 15th ed. 2017. Dr Khalili Group Publication. ISBN: 978-600-422-247-1. 781 Pages.

Work Experiences:

1. **2013 onward:** Associate Professor of Medical Genetic Department, Faculty of Medicine, Shahid Beheshti university of medical sciences, Tehran, Iran.

2. **2013 onward:** A member of education and research committee of Medical Genetic Department, Faculty of Medicine, Shahid Beheshti university of medical sciences, Tehran, Iran.

3. **2013 onward:** BMT Genetic counselor, Taleghani hospital, Tehran, Iran.

4. **2013 onward:** A member of BMT Committee, BMT Department, Taleghani hospital, Tehran, Iran.

5. **2013 onward:** A member of BMT laboratory, Taleghani hospital, Tehran, Iran.

6. **2017- June 2023:** A member of Executive Board of Council for Development of Stem Cell Sciences and Technologies, Vice-Presidency for Sciences and Technology, Tehran, Iran.

7. **2018- July 2022:** Secretary General of the National Council for the Development and Monitoring of stem cell donor Registries and Cord Blood Banks. Ministry of Health and Medical Education. Tehran, Iran.

8. **2018- June 2019:** Manager of Medical Genetics Lab, Medical Genetics Department, Shahid Beheshti University of medical sciences, Tehran, Iran.

Research Interests:

1. HLA Typing Techniques.
2. Gene expression and Genome profiling of Multifactorial Diseases.
3. Neuropsychiatric disorders.
4. Hematopoietic Malignancies and disorders.
5. Periodontal Disorders.