

Curriculum Vitae

Personal details

Name: Mansoor Salehi

Date of Birth: 07/2/1960

Married with 2 children

Work Address: 1-Department of Genetics and Molecular Biology
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Education

1998 – 2000 Post-Doctoral Research Training Course in Human Molecular
Genetics, School of Sciences, Sunderland University, Sunderland, UK

1994 – 1998 Ph.D. in Human Genetics, Institute for Cancer Studies
Sheffield University Medical school, Sheffield, UK

1993 – 1994 M.Sc. in Genetics, Institute for Cancer Studies
Sheffield University Medical school, Sheffield, UK

1980 – 1984 B.Sc. in Biology, Faculty of Sciences, Isfahan University, Isfahan, Iran

Work Experiments

2000 – Now	Lecturer in Medical Genetics, Department of Genetics and Molecular Biology, Medical School, Isfahan University of Medical Sciences, Isfahan 81744-176, Iran
1998 – 2000	Post-doctoral Research Fellow in the School of Sciences, Sunderland University, Sunderland, UK
1992 – 1993	Research Fellow in the Faculty of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran
1989 – 1992	Research Fellow in the Faculty of Medicine, Kashan Medical University, Kashan, Iran

Research expertise

I am expert in the following molecular biology, cell culture and histology techniques:

Preparation and Analysis of DNA; DNA Purification from Animal and Plant tissues, Minipreps and Large-Scale Preparation of Plasmid DNA, Introduction of Plasmid DNA into Cells (Transformation), Preparing and Using of Lambda Phages, Preparing and Using M13-Derived Vectors.

Size Fractionation of Nucleic Acids: Electrophoresis Using Agarose and Polyacrylamide Gel Electrophoresis.

Analysis Of DNA and RNA Sequences by Blotting and Hybridization; Southern and Northern Blotting, Dot and Slot Blotting, Hybridization Analysis of the Blots, Radioisotopes Manipulation of Nucleic Acids (Labeling and Detection of Probes) and Autoradiography.

Enzymatic Manipulation of Nucleic Acids: Digestion of DNA with Restriction Endonucleases (Multiple Digestions, Partial Digestions), DNA Ligation and Subcloning of DNA Fragments.

Preparation and Analysis of RNA; Preparation of Cytoplasmic RNA From Tissue Culture Cells, (Guanidinium Methods for Total RNA Preparation, Phenol/SDS Method for Plant RNA Preparation), Preparation of Bacterial RNA, Preparation of Poly (A)+ RNA, S1 Analysis of

RNA, Ribonuclease Protection Assay, Primer Extension, Analysis of RNA by Northern and Slot Blot Hybridization, Conversion of mRNA into Double-Stranded cDNA.

Construction of Recombinant DNA Libraries: Genomic and cDNA Libraries, Screening of Recombinant DNA Libraries.

DNA Sequencing: (dideoxy or Sanger method).

Introduction of DNA into Mammalian Cells.

In situ Hybridization and Immunohistochemistry; Fixation Embedding and Sectioning, Cryosectioning, In situ Hybridization to Cellular RNA, Detection of Hybridized Probe, Counterstaining and Mounting of Autoradiographed In situ Hybridization Slides, Immunohistochemistry (Using Isotopic and Nonisotopic Labeled Probes).

The Polymerase Chain Reaction (PCR) Based Techniques, Quantitation of Rare DNAs by PCR, Enzymatic Amplification of RNA by PCR, cDNA Amplification Using One-Sided (Anchored) PCR, Molecular Cloning of PCR Products, In situ PCR (ISPCR), Direct DNA Sequencing of PCR Products and Differential Display

Research Projects

Specific inactivation of telomerase enzyme using antisense oligonucleotide technology against hTR in leukemia

Evaluation of microsatellite instability in hereditary non- polyposis colorectal in cancer (HNPCE) patients"

Study of Incidence rate of mycosis fungoides in Isfahan, Iran in (2007–2008).

Evaluation of MLH1 and MSH2 Gene Mutations in a Subset of Iranian Families with Hereditary Nonpolyposis Colorectal Cancer (HNPCC)

Publications:

A) JOURNAL PAPERS

1. Komachali, S. R., Nouri, N., Zaker, E., Mousavi, S. R., & Salehi, M. (2022). A novel NR0B1 mutation correlated with X-linked adrenal hypoplasia congenital (AHC). *Gene Reports*, 27, 101598.
2. Tousizadeh, S., Salehi, M., Mohammadi-Moghadam, F., Tousizadeh, B., & Hemati, S. (2022). Investigation of the Relationship between Genetic Polymorphisms in GSTM1 and

GSTT1 Genes and Susceptibility to Lung Functional Abnormalities in Workers Exposed to Air Pollutants at Isfahan Steel Plant. *Journal of Environmental Health and Sustainable Development*, 7(1), 1594-1601.

3. Mousavi, S. R., Lotfi, H., Salmanizadeh, S., Feizbakhshan, S., Khosravian, F., Sajjadi, M. S., ... & Salehi, M. (2022). An experimental in silico study on COVID-19: Response of neutrophil-related genes to antibiotics. *Health Science Reports*, 5(2), e548.

4. Mousavi, S. R., Sajjadi, M. S., Khosravian, F., Feizbakhshan, S., Salmanizadeh, S., Esfahani, Z. T., ... & Lotfi, H. (2021). Dysregulation of RNA interference components in COVID-19 patients. *BMC research notes*, 14(1), 1-7.

5. Nouri, N., Bahreini, A., Nasiri, J., & Salehi, M. (2021). Clinical and genetic profile of children with unexplained intellectual disability/developmental delay and epilepsy. *Epilepsy Research*, 177, 106782.

6. Mousavi, S. R., Khosravian, F., Hemmat, N., Feizbakhshan, S., Salmanizadeh, S., Foroutan, F. S., ... & Salehi, M. (2021). A glance at glioblastoma molecular culprits through in-silico analysis. *Gene Reports*, 23, 101048.

7. Mousavi, S. R., Khosravian, F., Mondeali, M., Safi, A., Feizbakhshan, S., Salmanizadeh, S., ... & Salehi, M. (2021). Identification and prediction of common molecular culprits between psoriasis and melanoma via bioinformatical analysis. *Gene Reports*, 23, 101143.

8. Emami, M. H., Salehi, M., Hassanzadeh Keshteli, A., Mansourian, M., Mohammadzadeh, S., & Maghool, F. (2021). Calcium and dairy products in the chemoprevention of colorectal adenomas: a systematic review and meta-analysis. *Critical Reviews in Food Science and Nutrition*, 1-25.

9. Dehghan, R., Behnam, M., Moafi, A., & Salehi, M. (2021). A Novel Mutation in the VPS13B Gene in a Cohen Syndrome Patient with Positive Antiphospholipid Antibodies. *Case Reports in Immunology*, 2021.

10. Rahnama R, Mahmoudi A-R, Kazemnejad S, Salehi M, Ghahiri A, Soltanghorae H, et al. Thyroid peroxidase in human endometrium and placenta: a potential target for anti-TPO antibodies. 2021;21(1):79-88.

11. Ghalamkari S, Alavi S, Mianesaz H, Khosravian F, Bahreini A, Salehi MJLS. A novel carcinogenic PI3K α mutation suggesting the role of helical domain in transmitting nSH2 regulatory signals to kinase domain. 2021;269:118759.

12. Palombo F, Graziano C, Al Wardy N, Nouri N, Marconi C, Magini P, et al. Autozygosity-driven genetic diagnosis in consanguineous families from Italy and the Greater Middle East. *Human Genetics*. 2020.

13. Koohiyan M, Hashemzadeh-Chaleshtori M, Salehi M, Abtahi H, Noori-Dalooi MR, Tabatabaiefar MA. A Novel Cadherin 23 Variant for Hereditary Hearing Loss Reveals Additional Support for a DFNB12 Nonsyndromic Phenotype of CDH23. *Audiology and Neurotology*. 2020:1-5.

14. Jamshidian A, Abd-Nikfarjam B, Khademi Z, Shaygannejad V, Salehi M. Therapeutic plasma exchange may adjust IL-6 and TGF- β signals in relapsed MS patients peripheral blood. *Journal of Clinical Apheresis*. 2020;35(2):72-8.

15. Hadi N, Namazi F, Ketabchi F, Khosravian F, Ravaghi P, Salehi M. Altered Expression of Circulating miR-377 and miR-98 in Relapsing-remitting Multiple Sclerosis. *International Journal of Medical Laboratory*. 2020.

16. Gharipour M, Behmanesh M, Salehi M, Vaseghi G, Nezafati P, Dianatkah M, et al. Association of Selenoprotein S Expression and its Variants with Metabolic Syndrome in Subjects with Cardiovascular Disease. *Archives of Medical Research*. 2020.

17. Shariati L, Modarressi MH, Tabatabaiefar MA, Kouhpayeh S, Hejazi Z, Shahbazi M, et al. Engineered zinc-finger nuclease to generate site-directed modification in the KLF1 gene for fetal hemoglobin induction. *Journal of cellular biochemistry*. 2019;120(5):8438-46.

18. Shafiei J, Javadi G, Nateghi B, Shaygannejad V, Salehi M. Up-regulation of circulating miR-93-5p in patients with relapsing-remitting multiple sclerosis. *Journal of Basic Research in Medical Sciences*. 2019;6(3):4-11.
19. Safavi A, Kefayat A, Sotoodehnejadnematalahi F, Salehi M, Modarressi MH. Production, purification, and in vivo evaluation of a novel multiepitope peptide vaccine consisted of immunodominant epitopes of SYCP1 and ACRBP antigens as a prophylactic melanoma vaccine. *International Immunopharmacology*. 2019;76:105872.
20. Reisi M, Behnam M, Sayedi SJ, Salimi F, Kargar P, Salehi M, et al. Prevalence of Cystic Fibrosis Trans-membrane Conductance Regulator Gene common mutations in children with cystic fibrosis in Isfahan, Iran. *International Journal of Pediatrics*. 2019;7(4):9333-9.
21. Nateghi B, Shams E, Behshood P, Fathollahzadeh S, Salehi M. Expression Profiles of miR-93 and miR-330 in Iranian Patients with Chronic Lymphocytic Leukemia. *International Journal of Medical Laboratory*. 2019.
22. Nateghi B, Rabieian R, Salehi MJ. *JoBRiMS*. Low hemoglobin level is the major cause of pain and hallux blur: A clinical case report. 2019;6(4):66-8.
23. Nasiri J, Salehi M, Hosseinzadeh M, Zamani M, Fattahpour S, Aryani O, et al. Genetic Analysis of MECP2 Gene in Iranian Patients with Rett Syndrome. *Iranian Journal of Child Neurology*. 2019;13(3):25-34.
24. Mohsenpour N, Roknizadeh H, Maghbooli M, Changi-Ashtiani M, Shahrooei M, Salehi M, et al. Whole Exome Sequencing Revealed a Novel GJB1 Pathogenic Variant and a Rare BSCL2 Mutation in Two Iranian Large Pedigrees with Multiple Affected Cases of Charcot-Marie-Tooth. *International Journal of Molecular and Cellular Medicine*. 2019;8(3):169.
25. Moghimi M, Sadeghi Tafti H, Namazi F, Salehi M. Investigation of the Impact of Foretinib on AURKA and AURKB Expression in T98 Glioblastoma Cell Line. *Research in Molecular Medicine*. 2019;7(1):1-7.
26. Maroofian R, Behnam M, Kaiyrzhanov R, Salpietro V, Salehi M, Houlden H. Further supporting evidence for REEP1 phenotypic and allelic heterogeneity. *Neurology Genetics*. 2019;5(6).
27. KOOHIYAN M, REIISI S, AZADEGAN-DEHKORDI F, SALEHI M, ABTAHI H, HASHEMZADEH-CHALESHTORI M, et al. Screening of 10 DFNB Loci Causing Autosomal Recessive Non-Syndromic Hearing Loss in Two Iranian Populations Negative for GJB2 Mutations. *Iranian Journal of Public Health*. 2019;48(9):1704-13.
28. Koohiyan M, Noori-Dalooi MR, Hashemzadeh-Chaleshtori M, Salehi M, Abtahi H, Tabatabaiefar MA. A novel pathogenic variant in the CABP2 gene causes severe nonsyndromic hearing loss in a consanguineous Iranian family. *Audiology and Neurotology*. 2019;24(5):258-63.
29. Khosravian F, Ketabchi F, Boroumand N, Hadi N, Namazi F, Salehi M. Expression Profiles of IGF1, EGF, and FGF2 Genes in Patients With Prostate Cancer in Isfahan Province, Iran. *Research in Molecular Medicine*. 2019;7(2):0-.
30. Khalaj Z, Baratieh Z, Schwab M, Muerdter T, Mokarian F, Khanahmad H, et al. Clinical trial: CYP2D6 related dose escalation of tamoxifen in breast cancer patients with Iranian ethnic background. *Frontiers in pharmacology*. 2019;10:530.
31. Khalaj Z, Baratieh Z, Nikpour P, Khanahmad H, Mokarian F, Salehi R, et al. Distribution of CYP2D6 polymorphism in the Middle Eastern region. *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences*. 2019;24.
32. Khajehgoodari R, Khorvash F, Kheirollahi M, Mirsafaie M, Salehi M. Correlations between the expression of hTERT and α and β splice variants in human brain tumors. *Advances in clinical and experimental medicine: official organ Wroclaw Medical University*. 2019;28(4):507-13.

33. Ketabchi F, Namazi F, Hadi N, Khosravian F, Salehi M. The Effect of Dracocephalum kotschyi Alcoholic Extract on the BCL2 and BAX expression in SKBR3 Cell Line. *Research in Molecular Medicine*. 2019;7(3):0-
34. Hashemi SM, Baktashian M, Moghaddam KH, Salehi M, Soflaei SS, Ferns G, et al. The association between genetic polymorphisms of the interleukin-10, tumor necrosis factor-alpha, and annexin A5 gene loci and restenosis after percutaneous coronary angioplasty and stenting. *Journal of Research in Medical Sciences*. 2019;24(1):68.
35. Gharipour M, Ouguerram K, Nazih E-H, Salehi M, Behmanesh M, Razavi R, et al. Effect of single nucleotide polymorphisms in SEPS1 and SEPP1 on expression in the protein level in metabolic syndrome in subjects with cardiovascular disease. *Molecular biology reports*. 2019;46(6):5685-93.
36. Ghalamkari S, Khosravian F, Mianesaz H, Kazemi M, Behjati M, Hakimian SM, et al. A Comparison Between Full-COLD PCR/HRM and PCR Sequencing for Detection of Mutations in Exon 9 of PIK3CA in Breast Cancer Patients. *Applied biochemistry and biotechnology*. 2019;187(3):975-83.
37. Baktashian M, Soflaei SS, Kosari N, Salehi M, Khosravi A, Ahmadinejad M, et al. Association of high level of hs-CRP with in-stent restenosis: A case-control study. *Cardiovascular Revascularization Medicine*. 2019;20(7):583-7.
38. Abtahi SHR, Malekzadeh A, Soheilipour S, Salehi M, Taleban R, Rabieian R, et al. Evaluation of GJB2 and GJB6 Mutations in Patients Afflicted with Non-syndromic Hearing Loss. *International Journal of Pediatrics*. 2019;7(2):9053-60.
39. Suzuki T, Behnam M, Ronasian F, Salehi M, Shiina M, Koshimizu E, et al. A homozygous NOP14 variant is likely to cause recurrent pregnancy loss. *Journal of human genetics*. 2018;63(4):425.
40. Sherkat R, Khoshnevisan R, Kalantari A, Salehi M, Sheikhbahaei S. Pregnancy, Child Bearing and Prevention of Giving Birth to an Affected Child in Primary Immunodeficiency Disease (PID's), Lessons from Our Experiments. *Iranian Journal of Allergy, Asthma & Immunology*. 2018;17.
41. Sheikhbahaei S, Sherkat R, Camacho-Ordóñez N, Khoshnevisan R, Kalantari A, Salehi M, et al. Pregnancy, child bearing and prevention of giving birth to the affected children in patients with primary immunodeficiency disease; a case-series. *BMC pregnancy and childbirth*. 2018;18(1):299.
42. Seyedjoodaki A, Alsahebhosoul F, Eskandari N, Shaygannejad V, Salehi M, Kazemi M, et al. OX40 Gene and Serum Protein Expression Profiles in Patients with Parkinson's Disease. *Cell Journal (Yakhteh)*. 2018;20(2):177.
43. Seyedjoodak A, Alsahebhosoul F, Eskandari N, Shaygannejadi V, Salehi M, Kazemi M, et al. Study of Expression Rate of OX40 Gene in Peripheral Blood in Patients with Parkinson's Disease. *Iranian Journal of Allergy, Asthma & Immunology*. 2018;17.
44. Sekiguchi F, Nasiri J, Sedghi M, Salehi M, Hosseinzadeh M, Okamoto N, et al. A novel homozygous DPH1 mutation causes intellectual disability and unique craniofacial features. *Journal of Human Genetics*. 2018;63(4):487-91.
45. Safavi A, Kefayat A, Sotoodehnejadnematalahi F, Salehi M, Modarressi MH. In Silico Analysis of Synaptonemal Complex Protein 1 (SYCP1) and Acrosin Binding Protein (ACRBP) Antigens to Design Novel Multi-epitope Peptide Cancer Vaccine Against Breast Cancer. *International Journal of Peptide Research and Therapeutics*. 2018:1-17.
46. Mozaffarizadeh H, Hakimian M, Salehi M, Moazam E, Behjati M, Keshvari M, et al. The Relationship Between Breast Cancer and VDR Gene Polymorphisms. *Archives of Breast Cancer*. 2018:26-31.

47. Mousavi SM, Kamali E, Fatahi F, Babaie H, Salehi M. Autism and Probable Prerequisites: Severe and Scheduled Prenatal Stresses at Spotlight. *Iranian journal of public health*. 2018;47(9):1388.
48. Koohiyani M, Hashemzadeh-Chaleshtori M, Salehi M, Abtahi H, Reisi S, Pourreza MR, et al. GJB2 mutations causing autosomal recessive non-syndromic hearing loss (ARNSHL) in two Iranian populations: report of two novel variants. *International journal of pediatric otorhinolaryngology*. 2018;107:121-6.
49. Kazemi M, Khosravian F, Sameti AA, Moafi A, Merasi MR, Salehi M, et al. Association between (GT) n repeats in heme oxygenase-1 gene promoter and 3-year survival of patients with acute leukemia: A controlled, cross-sectional study. *International journal of hematology-oncology and stem cell research*. 2018;12(1):49.
50. Humbatova A, Maroofian R, Romano M, Tafazzoli A, Behnam M, Dilaver N, et al. An insertion mutation in HOXC13 underlies pure hair and nail ectodermal dysplasia with lacrimal duct obstruction. *The British journal of dermatology*. 2018;178(4):e265.
51. Hadizadeh M, Mohaddes Ardebili S, Salehi M, Young C, Mokarian F, McClellan J, et al. GJA4/Connexin 37 mutations correlate with secondary lymphedema following surgery in breast cancer patients. *Biomedicines*. 2018;6(1):23.
52. Gharipour M, Salehi M, Sadeghi M, Behmanesh M, Iranipour R. Is Selenium Supplementation Knockdown the Expression of SEPS1 in Patients with Metabolic Syndrome and History of Cardiovascular Disease? *Atherosclerosis Supplements*. 2018;32:158.
53. Gharipour M, Ouguerram K, Nazih EH, Salehi M, Behmanesh M, Roohafza H, et al. Effects of selenium supplementation on expression of SEPP1 in mRNA and protein levels in subjects with and without metabolic syndrome suffering from coronary artery disease: Selenogene study a double-blind randomized controlled trial. *Journal of cellular biochemistry*. 2018;119(10):8282-9.
54. Ghadiri N, Emamnia N, Ganjalikhani-Hakemi M, Ghaedi K, Etemadifar M, Salehi M, et al. Analysis of the expression of mir-34a, mir-199a, mir-30c and mir-19a in peripheral blood CD4+ T lymphocytes of relapsing-remitting multiple sclerosis patients. *Gene*. 2018;659:109-17.
55. Dastjerdi MN, Azarnezhad A, Hashemibeni B, Salehi M, Kazemi M, Babazadeh Z. An Effective Concentration of 5-Aza-CdR to Induce Cell Death and Apoptosis in Human Pancreatic Cancer Cell Line through Reactivating RASSF1A and Up-Regulation of Bax Genes. *Iranian journal of medical sciences*. 2018;43(5):533.
56. Bagherpour B, Salehi M, Jafari R, Bagheri A, Kiani-Esfahani A, Edalati M, et al. Promising effect of rapamycin on multiple sclerosis. *Multiple sclerosis and related disorders*. 2018;26:40-5.
57. Asadi Z-S, Akhoundi F, Salehi M, Nikpour P, Emadi-Baygi M. HBB FSC 36-37 (-T) Gene Mutation Detection in Carriers of Thalassemia Minor Using High Resolution Melting Analysis. *Journal of Genetic Resources*. 2018;4(1):37-43.
58. Asadi Fakhri Z, Mehrzad V, Izaditabar A, Salehi M. Evaluation of the utility of peripheral blood vs bone marrow in karyotype and fluorescence in situ hybridization for myelodysplastic syndrome diagnosis. *Journal of clinical laboratory analysis*. 2018;32(9):e22586.
59. Tousizadeh B, Moghim S, Chaleshtori ARS, Ghanbarian M, Mirian M, Salehi M, et al. Application of Epstein-Barr virus for optimization of immortalized B-lymphocyte production as a positive control in genetic studies. *Advanced biomedical research*. 2017;6.
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62. Salehi M, Reisi M, Ghasisin L. Lexical Retrieval or Semantic Knowledge Which One Causes Naming Errors in Patients with Mild and Moderate Alzheimer's Disease. *Dementia and geriatric cognitive disorders extra*. 2017;7(3):419-29.
63. Salehi M, Kamali E, Karahmadi M, mohammad Mousavi S. RORA and autism in the Isfahan population: Is there an epigenetic relationship. *Cell Journal (Yakhteh)*. 2017;18(4):540.
64. Sailani MR, Jahanbani F, Nasiri J, Behnam M, Salehi M, Sedghi M, et al. Association of AHSB with alopecia and mental retardation (APMR) syndrome. *Human genetics*. 2017;136(3):287-96.
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66. Mirian M, Khanahmad H, Darzi L, Salehi M, Sadeghi-Aliabadi H. Oligonucleotide aptamers: potential novel molecules against viral hepatitis. *Research in pharmaceutical sciences*. 2017;12(2):88.
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69. Kamali E, Mousavi SM, Karimi P, Salehi M. Decoding the genetics of speech and language: Genetic insight into the functional elements. *Journal of Shahrekord University of Medical Sciences*. 2017;19(2):158-79.
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73. Behjati M, Hashemi M, Kazemi M, Salehi M, Javanmard SH. Evaluation of Energy Balance on Human Telomerase Reverse Transcriptase (hTERT) Alternative Splicing by Semi-quantitative RT-PCR in Human Umbilical Vein Endothelial Cells. *Advanced biomedical research*. 2017;6.
74. Baratieh Z, Khalaj Z, Honardoost MA, Emadi-Baygi M, Khanahmad H, Salehi M, et al. Aberrant expression of PlncRNA-1 and TUG1: potential biomarkers for gastric cancer diagnosis and clinically monitoring cancer progression. *Biomarkers in medicine*. 2017;11(12):1077-90.
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76. Shariati L, Khanahmad H, Tabatabaiefar Ma, Salehi M, Rahimmanesh I, Mirian M, Et Al. Inducing Indel Mutation In The Klf1 Gene By Crispr/Cas9 Technology To Reactivate Gamma Globin Expression: An Approach Towards Gene Therapy Of Beta Thalassemia. 2016.
77. Shariati L, Khanahmad H, Salehi M, Hejazi Z, Rahimmanesh I, Tabatabaiefar MA, et al. Genetic disruption of the KLF1 gene to overexpress the γ -globin gene using the CRISPR/Cas9 system. *The journal of gene medicine*. 2016;18(10):294-301.
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80. Salehi M, Bagherpour B, Shayghannejad V, Mohebi F, Jafari R. Th1, Th2 and Th17 Cytokine profile in patients with multiple sclerosis following treatment with Rapamycin. *Iranian Journal of Immunology*. 2016;13(2):141-7.
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82. Rami F, Mollainezhad H, Salehi M. Induced pluripotent stem cell as a new source for cancer immunotherapy. *Genetics research international*. 2016;2016.
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