

## Curriculum Vitae



### **Personal details**

Name: Fatemeh

Surname: keshavarzi

Nationality: Iranian

Present Address: Assistant professor, at the department of Genetics, Sanandaj Azad University, Kurdistan, Iran.

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### **Academic qualification**

Certificate Degree	Field of Specialization	Name of Institution Attended	date Received
<i>PHD</i>	<i>Molecular genetics</i>	<i>Science and research university, Tehran</i>	2010
<i>M. Sc</i>	<i>Cellular and molecular biology</i>	<i>Tehran university</i>	2001
<i>B. A</i>	<i>Zoology</i>	<i>Isfahan university</i>	1995

### **Thesis title in PHD:**

Rapid molecular detection of BRCA1 and BRCA2 genes rearrangements, deletions and point mutations in high risk Iranian breast and ovarian cancer families.

### **Thesis title in Msc:**

Biological assay of 18F and 123I labeled peptides for nuclear medicine

### **Academic Interests**

*Molecular genetics, medical genetics, human genetics, genetic engineering, bacterial genetics, bioinformatics, cellular and molecular biology, cancer genetics*

### **Languages**

English, Kurdish, Persian

-Employment and experience

1. Head of the biology department (B.Sc. students), sanandaj branch, Islamic Azad University (2005 till 2007).
2. Head of cellular and molecular biology department (MSc. Students), science and research, Kurdistan branch, Azad University (2010 until now).
3. A member of Scientific Research Council of Women Azad University.
4. I have enough experience in Genetic counseling, Nucleic acid Extraction, Primer and probe design software like GeneRunner, BLAST, Photo Cap , Electrophoresis: PAGE, SSCP, Cell Culture, Preparation of CVS, Karyotyping: Chromosome analysis and Chromosome Banding Techniques like G, C, Q- banding , Cloning and sub-cloning procedure , Molecular Methods like: Multiplex-PCR, SSCP, RFLP-PCR, Heteroduplex Analysis, (Amplification Refractory Mutation System) ARMS-PCR or Allele- Specific PCR, Linkage Analysis (VNTR Analysis), Biostatistics and research data analysis and application of software like SPSS, Excel, Next generation sequencing data analysis software, MLPA....

### **Publications:**

#### **a. Books**

Free radicals and antioxidants

#### **b. Full Papers**

1. Keshavarzi, F, Vousogh, P. The prevalence of the t (1; 4) (p21; p14) chromosomal translocation in the number of patients with mental disability in Iran. *J Bas Res Med Sci* 2016(Accepted).
2. Keshavarzi, F, Ashtari, P. Examine to evaluate serological applications of Toxoplasma gondii rhoptry protein 1antigen *J Bas Res Med Sci* 2016(Accepted).
3. Keshavarzi,F, Khadempar,S, Solgi, G. The investigation of relationship between polymorphisms of CTLA-4 gene and Type II diabetes. *Scientific journal of Ilam University of Medical Science* 2016;24(5):22-38.

4. Asja Ardlan, A, Keshavarzi, F, Fattahy Rad, F, Baghbani, F. Determination of mef genotype in Beta-hemolytic streptococci group A strains isolated from patients in Sanandaj city. *Scientific journal of Kurdistan University of Medical Science* 2016;21(3): 29-40.
5. Kiani,J, Khadempour,S, Hajilooi,M, Rezaei,H, Keshavarzi,F,Solgi, G. Antigen-4 Gene Variants in Type 2 Diabetic Patients with or without Neuropathy. *Iranian Journal of Allergy, Asthma and Immunology* 2016; 15(3): 220-228.
6. Keshavarzi, F, Tvakoly, I. Determination of Resistance to Klindamycine and Erythromycin of Staphylococcus aureus Clinical Isolates Obtained from Pathology Laboratories in Sanandaj City. *Scientific journal of Ilam University of Medical Science* 2016; 23(7): 51-59.
7. A survey of patients with mental retardation of unknown origin. *J Bas Res Med Sci*2016; 3(2):53-57.
8. Manshadi, MD, Kamalidehghan, B, Keshavarzi, F, Aryani, O, Dadgar, S, Arastehkani, A, Tondar, M, Ahmadipour, F, Meng, GY, Houshmand, M. Four Novel N358K, V36A, InsT codon354 and DelCT codon473 mutations in the sphingomyelin phosphodiesterase 1 (SMPD1) gene in patients with type A and B Niemann-Pick disease (NPD). *Int. J. Mol. Sci.* 2015;16(4) :6668-6676 .
9. keshavarzi, F, Jahanbazi, sh. Investigation the prevalence of mutations IVS 10 and R158Q in a number of Iranian patients with PKU. *International Journal of Biology, Pharmacy and Allied Sciences* sep.2015; 4(9). 293- 297.
10. Keshavarzi, F, Radpor, M, Ashtari, P, Fattahy Rad, A, Alirezapour, B, Evaluation of magnetic silica nanoparticles treated with I-131 to the MCF-7 cell line and mouse. *Scientific journal of Ilam University of Medical Science* 2015;22(6), 84-92.
11. Keshavarzi, F, Parshang, S. The prevalence of fragile X syndrome among people with mental retardation in Kermanshah Province. *Research journal of fisheries and hydrobiology* 2015; 10(9): 524-527.
12. Evaluation of recombinant antigen ROP1 efficacy in diagnosis of *Toxoplasma gondii* infection. *Journal of Shahid Sadoughi University of Medical Sciences* 2015 ;23(4) , 2083-2095.
13. Hasanvand, M, keshavarzi, F, Ashtari, P , Alirezapoor, B. Evaluation of magnetic silica nanoparticles treated with In-111 in SKBR-3 cell line. *Scientific journal of Ilam University of Medical Science* 2016; 24 (1), 18-24.
14. Darabi, A, keshavarzi, F, Sedaqaty, B, Salehifard, P, Masaody Far, M, Fattahy Rad, A, Zeinali, S, Fallah, MS, The study of Beta globine gene mutations in transfusion dependent patients who referred to health center of kurdistan province. *Scientific journal of Kurdistan University of Medical Science* 2015; 20(4):26-32.
15. Keshavarzi, F, Mohammadpour, L, Fallah, MS, Zeinali, S, Ghaderi, B, Fattahy Rad, A, Akramipour, R , Azadmehr, S. Alpha globine gene mutations in a case series of alpha

thalassemia patients( 2015). *Scientific journal of Kurdistan University of Medical Science* 2015; 20(3), 79-84.

16. keshavarzi, F, Mousavi, F, Ramezani, A, Ashtari ,P, Chemo-informatics evaluation and in vitro bioactivity assay of human Cox2 enzyme inhibitors. *Scientific journal of Ilam University of Medical Science*2015;23(2).

17. Keshavarzi, F, Amini, D. Comparison phenotypic methods with mecA gene analysis for the detection of methicillin/oxacillin resistance in clinical isolates of staphylococcus aureus in sanandaj city. *Scientific journal of Ilam University of Medical Science*2014;22(7),109-122.

18. Hamidi, H, Talebi, R, Keshavarzi, F. Comparative Efficiency of Functional Gene-based Markers, Start Codon Targeted Polymorphism (SCoT) and Conserved DNA-derived Polymorphism (CDDP) with ISSR Markers for Diagnostic Fingerprinting in Wheat (*Triticum aestivum* L.) . *Cereal Research Communication* 2014;42(4);558- 567.

19. Kishani Frahani, R, Montazer- Haqiqi, M, Asadzadea, H, keshavarzi, F, Taleghanei, MY,APC gene large deletions in Iranian patients with Familial Adenomatous Polyposis. *Indian Journal of Cancer*, 2014; 51(3); 352-357.

20. Keshavarzi, F, Ashtari, P. Radio labeled FMLF—a Valuable Peptide for Diagnostic Imaging. *Journal of Pharmacy and Pharmacology* 2014; 2 :70-78.

21. Ghafari, P, Talebi, R, Keshavarzi, F.Genetic diversity and geographical differentiation of Iranian landrace, cultivars, and exotic chickpea lines as revealed by morphological and microsatellite markers. *Physiology and Molecular Biology of Plants Journal. Physiol Mol Biol Plants* 2014;20(2):225-33

22. keshavarzi, F, Ashja Ardlan, A, Fattahy Rad, A. Antibiotic resistance and molecular analysis of streptococcus pyogenes isolated from Iranian patients. *AJBS journal* 2014; 7 (6 ); 284-293.

23. Keshavarzi, F, Ashtari, P. Expression of complete rhopty protein 1 (ROP1) gene of Toxoplasma gondii in eukaryotic cell. *Asian Journal of Biological Sciences* 2013; 6(7):340- 346.

24. Keshavarzi, F, Ashtari, P.Ahmaeed. MS. Evaluation of an I123-Radiolabeled Peptide as a Targeting and Imaging Agent for Cell Membrane Receptors. *International Journal of Biological Chemistry* 2013; 7: 69-78.

25. Keshavarzi, F, Basati, GH, Valizadea, ZH. Relationship between Exon 3 (+/-) Genotypes of Growth Hormone Receptor and Metabolic Risk Factors in Patients in Pre-diabetic State. *Journal of Isfahan Medical School* 2013; 31(235):591-600.

26. Iqbal, MS, Ahmed, MS, Orgas, TT, Ullah S, Asif JH, keshavarzi, F. Diagnosis & Management of Iron Deficiency Anemia via Parental Iron. *International Journal of Natural Sciences* 2012; 2(3):88-90.

27. Keshavarzi, F, Eskafi Noughani, A, Ayoubian, MH,, Zeinali, S. BRCA1 and BRCA2 germline mutations in 85 Iranian breast cancer patients. *Familial cancer J.* 2012; 11(1):57-67.

28. Keshavarzi, F, Nafisi, Siraty, F, Sharafi Farzad, M, Zeinali, S. Occurrence and Contribution of germline BRCA1 and BRCA2 sequence alterations in Iranian breast cancer patients. *Tehran University Medical Journal*; 2011; 69(9): 559-570.
29. Keshavarzi, F, Eskafi Noughani, A, Ayoubian, MH, Zeinali, S .Sequence Variants of BRCA1 and BRCA2 Genes in Four Iranian Families with *Breast and Ovarian Cancer*.*Iranian J Publ Health* 2011; 40(2); 57-66.
30. Keshavarzi, F, Javadi, GH, Nafisi, N, Akbari, ME, Yassaee, V, Sharafi Farzad, M, Zeinali, S. BRCA1 and BRCA2 Genetic Testing in Breast and/or Ovarian Cancer Families in Iran. *Yakhteh Medical Journal* 2010 12( 3): 329-340.
31. Keshavarzi, F. Javadi, GH, Nafisi, N, Majidzadea, K, yasaai, V, Baqarian, H, Mashaikhiea, MR, Zainali, S,.Identification of BRCA1 and BRCA2 mutations in a number of Iranian patients with early onset breast cancer or family histort of breast cancer risk. *Iranian J of Diseases Breast* 2010; 2(2): 14-26.
32. Keshavarzi, F. The facts of Aids. *Scientific J of Islamic Azad University* 2005;1(1); 95-107.
33. Rafii, H, Beiki, D, Matlubi, M, Jalilian, AR, Motamedi, F, Karimian, AR, Najafi, AR, Babaei, M, Kamalidehgan, M, Shahhossaini, GR, Shafahi,Sk, Keshavarzi, F. Optimization of synthesis and quality control procedures for the preparation of 18F and 123I labelled peptides for nuclear medicine. *Int. national J of Atomic energy* 2002; 1310: 117-126.

### **c. Presentation**

1. Keshavarzi, F. Mutations in BRCA1 and BRCA2 genes in Iranian high risk family. 14<sup>th</sup> World Cancer Convention, Dubai, UAE.
2. T Keshavarzi, f, Heidary A, Vousoughi, P, Pejgol, A. The prevalence of chromosomal abnormality in 100 kurdish individual with mental retardation by by gtg- banding karyotype. 5<sup>th</sup> National Seminar on Genetic Counseling and Prevention of Disability, 2016, p- 106.
3. Keshavarzi, F, Zeinali, S. Genetinc counseling and Detection of mutations in BRCA1 and BRCA2 genes in high risk Iranian Families cancer. 5<sup>th</sup> National Seminar on Genetic Counseling and Prevention of Disability, 2016, p-102.
4. Keshavarzi, F, Hashmaty, AR. Three cases with Turner Mosaism karyotype in women with abnormal pregnancy. 5<sup>th</sup> National Seminar on Genetic Counseling and Prevention of Disability, 2016, p- 70.
4. Keshavarzi, F, Relationship between antimicrobial resistance and class I integron in MDR *Acinetobacter baumannii* strains isolated from sanandaj hospitals. 8<sup>th</sup> International Iranian congress Of laboratory and clinic, 2016.

5. Keshavarzi, F, Detection of GBS(scspB gene) carriers in Kermanshahian Pregnant Women By phenotypic and Colony-PCR Methods. 8<sup>th</sup> International Iranian congress of laboratory and clinic, 2016.
- 6..Fatahy Rad, A, Keshavarzi, F. Rapid detection of carriers with BRCA1 and BRCA2 mutations using high resolution melting analysis in Iranian breast cancer patients.The 2015 International MASCC/ISOO Symposium, Supportve Care In cancer: 23(1);S379.
7. Keshavarzi, F, Fattahy Rad, A.Examine to evaluate serological applications of *Toxoplasma gondii* rhoptry protein1 antigen. European Human GeneticsConference 2015; E J Human Genetics: p-405.
8. Fattahy Rad, Azad, Keshavarzi, F . The prevalence of Antibiotic resistance and corresponding resistance genes in clinical isolates of staphylococci from Kurdistan hospitals. European Human Genetics Conference 2015; E J Human Genetics: p-405.
9. Ramazanzadea, R, Ahmadiesad, M, Keshavarzi, F.Risk factors associated with community-acquired TEM producing Klebsiella pneumonia .15<sup>th</sup> International Iranian congress of microbiology, 2014, p – 154.
- 10.Arabzadea, F, Keshavarzi, F, Rahimian Zarif, B. Resistance to Tetracycline and Vancomycin of Staphylococcus aureus isolates from Sanandajian patients. The 15<sup>th</sup> International Iranian congress of microbiology, 2014, p – 309.
11. Tavakoli, I, Keshavarzi, F, Rahimian Zarif, B. Resistance to Erythromycin and Clindamycin of Staphylococcus aureus isolates from Sanandajian patients.15<sup>th</sup> International Iranian congress of microbiology, 2014, p-311.
12. Amini, D, Keshavarzi, F . Detection of Methicillin/oxacillin resistance of Staphylococcus aurous in clinical isolates in Sanandaj city has accepted for poster presentation at 15<sup>th</sup> International Iranian congress of microbiology, 2014, p – 564.
13. Ashja Ardlan, A, Keshavarzi, F. Determine the genotype / phenotype strains of Beta-hemolytic *Streptococci group A* (carrying the *mef* gene) isolated from patients in Sanandaj .The 15<sup>th</sup> International Iranian congress of microbiology, 2014, p –570.
14. Khorshid Talab, M, Shahossiny, Mh, Keshavarzi, F. Rapid Identification of Clinically Relevant *Nocardia Spp*. By 16S rRNA Gene PCR in AIDS Patients .15<sup>th</sup> International Iranian congress of microbiology, 2014, p – 612.
15. Keshavarzi, F, Baghbani, F, Ashja Ardlan, A, Khorosh, J.Investigation of inducible clindamycin resistance in Streptococcus Beta Hemolytic Group A from clinical isolates by D-zone test.15<sup>th</sup> International Iranian congress of microbiology, 2014, p – 1051.

16. Memari, F, Keshavarzi, F, Moatamedi, F. Prevalence and genotyping of noroviruses isolated from patient with acute gastroenteritis in sanandaj in 2012-2013. 15<sup>th</sup> International Iranian congress of microbiology, 2014, p- 1192.
17. Keshavarzi, F, Ashtari, P. Evaluation of magnetic silica nanoparticles treated with I-131 in MCF-7 cell line of breast cancer. The 15th biennial meeting of the international gynecologic cancer society– IGCS Melbourne, Australia, November 8-11, 2014.
18. Keshavarzi, F. Polymorphisms of polymorphisms of BRCA genes in Iranian breast cancer families. The 15th biennial meeting of the international gynecologic cancer society– IGCS Melbourne, Australia, November 8-11, 2014, p- 1051.
19. Mohammadpour, L, Fajjah, M,S, Keshavarzi, F, Azadmehar, R, Akramipour,S, Zeinali, S. Alpha globin gene mutations in Kurdistan and Kermanshah provinces, Iran. European Human Genetics Conference 2014; E J Human Genetics: p-376.
20. Darabi, A, Fallah. MS, Keshavarzi, F, Sedaghatikhayat, B, Azadmehr, S, Salehifar, P, Zeinali, S. Beta globin gene mutations in Kurdistan provinces, Iran . European Human Genetics Conference 2014; E J Human Genetics: p-382.
21. keshavarzi, F. Evaluation of recombinant antigen Rop1 efficacy in diagnosis of Toxoplasma gondii infection. 12th International Congress of Immunology & Allergy , Tehran, Iran , *Iranian J of immunology 2014:1(1); p- 913*.
22. Ashtari, P, Keshavarzi, F, Alirezapour, B, Radpour, M, Hasanvand, M, Rahimi. The use of magnetic nano drop silica in stability I-131 radiopharm. 20<sup>th</sup> Iranian Nuclear Conference, Gilan, Iran.
23. Ranjibar, Y, Shahossiny, MH, Keshavarzi, F, Farhadi, M, Mahmoudi, MA. Rapid Molecular Diagnosis of fungi sinusitis by pcr Method. 6th International Iranian Congress laboratory and clinic, Iran, 2014, Tehran.
24. keshavarzi, F, Ashtari, P. In vivo and in vitro assay of the small labeled peptide in nuclear medicine. 2th world congress, on Ga-68(Generators and novel pharmacocoticals, molecular imaging), India (2013).
25. Keshavarzi, F, Ashtari, P. Mutations analysis of breast cancer susceptibility genes in Iranian patients. The International Gynecologic Cancer Society Regional Congress, April 11-13, 2013, Bali.
26. Keshavarzi, F, Zeinali, S, Ashtari, P. The importance of genetic Testing in Breast and/or Ovarian Cancer Families and Impact on Patients Management. *13th Iranian Congress of Biochemistry and Molecular biology Yazd, Iran. I j of Biotechnology 2013; 42(11): p-187*.

27. Rajabi, sh, Ghasmi, N, Shiryazdi, SH, M, Keshavarzi, F, Neamatzadea, H, Dehgan Manshadi, M, Arastea, Ah. Relationship Between p53 Codon 72 Polymorphism and Breast Cancer in yazdi women. *13th Iranian Congress of Biochemistry and Molecular biology Yazd, Iran. I j of Biotechnology 2013; 42(11): p-102.*
28. Ashtari, P, Wang, K, He, XX, Keshavarzi, F, Alirezapour, B. Magnetic-Gold Nanoparticles, Synthesis and Application.. *13th Iranian Congress of Biochemistry and Molecular biology Yazd, Iran. I j of Biotechnology 2013; 42(11): p-169.*
29. Basati, Gh, Keshavarzi, F, Valizadea, Z, Emam Razavi, A. Association between Exon 3 (+/-)Growth Hormone Receptor with Metabolic Risk Factors in Pre-diabetic State Patients. *13th Iranian Congress of Biochemistry and Molecular biology Yazd, Iran. I j of Biotechnology 2013; 42(11): p-134.*
30. Kishany frahany, R, Montazer, Haghighi, M, Keshavarzi, F, Nazemolhossaini, E, Zali, M. APC gene large deletions in Familial Adenomatous Polyposis patients. European Human Genetics Conference 2013; E J Human Genetics: p-540.
31. Keshavarzi, F. BRCA Mutations in Iranian Canadian Breast Cancer Families. International Bio Conference & Event. Hyderabad, India (2012).
32. Keshavarzi, F. Analysis of breast cancer predisposition genes by direct sequencing and multiplex ligation-dependent probe amplification technique. European Human Genetics Conference 2012; E J Human Genetics: p-161.
33. Shajarian, M, Rafiei, L, Naji, H, Javanmard, Sh, Keshavarzi, F. Association of RBP4 genetic polymorphism and obesity in the Iranian population. 2th international conference and exhibition on obesity and weight management, 2013.
34. Arasteakani, A, Keshavarzi, F, Ghodsinejad, V, Dehganimanshadi, M, Aryani, O, Asharafi, O, Houshmand, M. New probable pathogenic mutations in 22 trna mitochondrial genes in Iranian cytopathy patients. European Human Genetics Conference 2012; E J Human Genetics: p- 348.
35. Dehganimanshadi, M, Keshavarzi, F, Dadgar, S, Arasteakani, A, Aryani, O, Zaman, T, Houshmand, M. Two new mutations in Iranian Niemen-pick patients. European Human Genetics Conference 2012; E J Human Genetics: p-413.
36. Keshavarzi, F, Zeinali, S. Effects of specific haplotypes of BRCA gene on increasing Predisposition to breast cancer in high risk Iranian families. 11<sup>th</sup> Iranian Congress of Biochemistry Qazvin 2011.
37. Keshavarzi, F. Boadicea Model, Detection of carrier and risk assessment, genetic testing for prevention in high risk family. 1th congress cancer in Sanandaj, Iran 2011; p: 43.
38. Montazer haghighi, M, Keshavarzi, F, Zali, N, Irani, A, Fatemi, R, Zali, MR. Screening of large deletions in dna mismatch the repair genes, MLH1 AND MSH2, in 36 Iranian patients with lynch



syndrome. *ESMO (EUROPEAN SOCIETY FOR MEDICAL ONCOLOGY) 13th World Congress on Gastrointestinal Cancer Spanish 2011*; p: 22(5) v85.

39. Keshavarzi, F, Zeinali, S. BRCA1 and BRCA2 germline mutations in 100 high risk Iranian breast cancer families. *ESHG 2011*; *E J Human Genetics*: p-194.

40. Keshavarzi, F, Zeinali, S. The patterns of BRCA1 and BRCA2 mutations in hereditary breast cancer. *American Society of Human Genetics 2010*, 2-6 N. Washington, DC.

41. Keshavarzi, F, Zeinali, S. Breast Cancer Susceptibility Genes Polymorphisms and Pathologic effects in high risk Iranian families. *European Human Genetics Conference 2010*; *E J Human Genetics*: p- 362.

42. Mahdiea, N, Shirkavand, A, Raeisi, M, Shahab Movahad, Z, Masoudifar, M, Mashaieakhy, M, Keshavarzi, F, Zeinali, S. DFNB1 hearing loss in Iran. *ESHG 2010*; *E J Human Genetics*: p- 312.

43. Mashaikhy, M, Parivar, K, Mahdiea, N, Raiesei, M, Masoudifar, M, Asheri, M, keshavarzi, F, Zeinali, S. Comparison of PEP and nested PCR for analysis of single cell and low quantity DNAs. *European Human Genetics Conference 2010*; *E J Human Genetics*: p- 369.

44. Keshavarzi, F. Oxidative stress and Neurodegenerative. (3th congress Neurodegenerative Diseases) in Iran 2010; p(1828).

45. Keshavarzi, F. Ras genes. 11 th Genetic congress of Iran 2010.

46. Keshavarzi, F, Zeinali, S. Rapid molecular detection breast and ovarian cancers in Iranian high risk families. 11 th Genetic congress of Iran 2010.

47. Keshavarzi, F, Zeinali, S. Javadi, GH, Majidzadea, K. Molecular Diagnosis of Breast Cancer in Iran. 3th Breast Cancer congress in Iran 2010; p86-87.

48. Keshavarzi, F, Zeinali, S. The significant genetic testing of Brca gene in familiar cancer cases. 12<sup>th</sup> International Congress of Gynecology & Obstetrics in Iran 2010; p(44).

49. BRCA1 and BRCA2 mutations analysis of early-onset and familial breast cancer cases in Iran. 5 th International Breast cancer Congress in Iran 2009; p165.

### ***Student's thesis supervisor***

1. Beta globin gene mutations in Kurdistan provinces.
2. Alpha globin gene mutations in Kurdistan and Kermanshah provinces
3. MTHFR C67T Gene Polymorphism in hyper homocystinemia patients with retinal vascular occlusion
4. Frequency of P53 gene codon 72 polymorphism in people with and without breast cancer.
5. Molecular investigation of 22 tRNA mitochondrial mutations in Iranian cytopathy disease.
6. Risk factors associated with community-acquired TEM producing *Klebsiella pneumoniae*
7. Resistance to Tetracycline and Vancomycin of *Staphylococcus aureus* isolates from Sanandajian patients

8. Resistance to Erythromycin and Clindamycin of Staphylococcus aureus isolates from Sanandajian patients
9. Detection of Methicillin/oxacillin resistance of Staphylococcus aureus in clinical isolates in Sanandaj
10. Evaluation of magnetic silica nanoparticles treated with In-111 in SKBR-3 cell line
11. Evaluation of magnetic silica nanoparticles treated with I-131 in MCF-7 cell line and so on
12. The relationship between FokI polymorphism in vitamin D receptor (VDR) gene and breast cancer
13. Evaluation of rs3758539 and rs10882280 genetic polymorphisms frequency of Retinol Binding Protein 4 in patients
14. Analysis of Single Nucleotide Polymorphism (SNP) rs 849140 in JAZFR1 gene and Association with Uterine Leiomyoma by PCR-RFLP method
15. Polymorphism 1100delC CHEK2 in Breast cancer in patient Esfahan
16. Analysis of Single Nucleotide Polymorphism (SNP)rs1635862 in JAZF1 gene and Association with leiomyoma by PCR-RFLP method
17. Relationship between CTLA-4 gene polymorphisms at positions +49 -318 and -1722 and type 2 diabetes in Hamadan
18. Investigation of the relationship between G84E mutation of HOXB13 Gene and Prostate Cancer in a Number of Iranian Patients
19. Prevalence locations Trans t(1-4)(p21-p14) in some patients with mental retardation in Iran
20. The prevalence of the mutation Dell(GJB6-D13S1830) GJB6 gene in population Hearing impaired non-syndrome Kurdistan Province
21. Evaluation the rs4820268 missense mutation of TMPRSS6 gene in patients with iron deficiency in Sanandaj city
22. Prevalence of trans-location (13q.14q)(14q.15q)and(13q.15q) in the number of mental retarded patient in Kurdistan
23. Evaluation the rs855791 missense mutation of TMPRSS6 gene in patients with iron deficiency Anemia in Sanandaj city
24. Study of non-syndromic deafness SLC26A4 Gene Mutation in Patients with autosomal recessive inheritance in city of sanandaj
25. Investigate the prevalence trans-location (11q 18.11Xq) in a number of patients mental retardation
26. The prevalence of 3q29 microdeletion syndrome in a number of mental retard patient
27. Relationship between antimicrobial resistance and class I integron in MDR acinetobacter baumannii
28. Comparison between serological methods and Nested-PCR in diagnosing brucella abortus in Sanandaj
29. Prevalence of Group B streptococcus carrier bscpB gene in pregnant woman in Kermanshah province with phenotypic evolution and Colony-PCR
30. Prevalence of D3S1358 and D16S539 loci in the population of Lorestan and comparison of it with the rest of the Kurdish population
31. Determining the allele frequencies of four Autosomal STR locus in Iranian Kurdish population

32. Prevalence of microsatellite markers in the population levels of Ilam

33. Prevalence of microsatellite markers in the population levels of Kermanshah

And so, I have experience in teaching for 10 years in the following fields: Cellular and molecular biology, Molecular genetics, Human genetics, Cancer genetics, Immune genetics, genetic population, genetic engineering

### ***Course and training***

1. Genetic counseling (300 h)
2. The rule of genetics in familiar breast and ovarian cancer By Iranian Neurogenetics Society.
3. Gene expression assay in Mesenchymal stem cells using Real time- RT PCR By Iranian Molecular Medicine Network.
4. Bioinformatics workshop By Iranian Molecular Medicine Network.
5. Real time work shop By Iranian Molecular Medicine Network.

### ***Award and activity***

1. First researcher award in the science college sanandaj Azad University 2010
2. First researcher award in the science college sanandaj Azad University 2011
3. First researcher award in the science college sanandaj Azad University 2012
4. First researcher award in the science college sanandaj Azad University 2011 as the best paper in pubmed journals
5. First researcher award in the science college sanandaj Azad University 2014
6. First researcher award in the science college sanandaj Azad University 2015

### ***References***

1. Dr. sirousZeinali, professor in Pasteur Institution, zeinali@pasteur.ac.ir
2. Ala-Eddin Al Moustafa, McGill University,  
ala-eddin.almoustafa@mcgill.ca
3. Massoud Houshmand, professor in international center of genetic engineering,  
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