**CURRICULUM VITAE**

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**CURRENT SITUATION:**
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**EDUCATIONAL QUALIFICATIONS:**
١٩٩١-١٩٩٦ Ph.D. (Biotechnology) at Biotechnology Research Group, School of Biological and Environmental Sciences, Murdoch University, Perth, Western Australia
١٩٨٥-١٩٨٨: M.Sc. (Biochemistry), Biochemistry Department, School of Medical Sciences, Tarbiat Modarres University, Tehran, Iran
١٩٧٧-١٩٨٤: B.Sc. (Chemistry), Chemistry Department, School of Sciences, Ferdousi Uneversity, Mashhad, Iran

**Topics of Thesis:**
**PhD:** Cloning and characterization of a novel mitochondrial autoantigen involved in multiple sclerosis
**MSc:** Production of antibody against the Small Molecules
**BSc:** Isolation and purification of color pigments from plant leaves.

**WORK EXPERIENCES:**
٢٠٠٦- Until now: Researcher at the Medical Genetic Department, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran.
١٩٩٧ – ٢٠٠٥: President of the National Institute for Genetic Engineering and Biotechnology, Tehran, Iran.
١٩٩٥: Part time research assistant (work on multiple sclerosis diseases), Murdoch University, Western Australia .
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**Papers published in Scientific Journals:**

۱۷۷- Rostami P, Zendehdel K, Ebrahimi E, Ataii M, Imanian H, Najmabadi H, Akbari M. R, Sanati M. H. Gene Panel Testing in Hereditary Breast Cancer Patients from Iran. Iranian Medicine J.۲۰۱۹.

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١٤١- Askari M Nikpoor AR, Gorjipour F, Mazidi M, **Sanati MH**, Aryan H, Irani A, Ghasemi Falavarjani K, Nazari H, Mousavizadeh K . Association of Htra١ gene polymorphisms with the risk of developing AMD in Iranian population. . Rep Biochem Mol Biol. ٤(١):٤٣-٩,٢٠١٥

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**١٣٧-** Zahra Elyasi Gorgi, Amir Amiri yekta, Saeid Hasani, **Mohammad Hossein Sanati**, Pichia pastoris yeast: an appropriate experimental tool for recombinant proteins production. Accep in Iranian biology J.vol:٢, No:٢٨, ٢٠١٥

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**١٣١.** Somayeh Reiisi١, Mohammad Hosein Sanati١, Mohammad Amin Tabatabaiefar٢, Shahla Ahmadian٣, Salimeh Reiisi٤, Shahrbanoo Parchami٣, Hamid Porjafari٥, Heshmat Shahi١, Afsaneh Shavarzi٣, Morteza Hashemzade Chaleshtori, The Study of SLC٢٦A٤ Gene Causing Autosomal Recessive Hearing Loss by Linkage Analysis in a Cohort of Iranian Populations, IJMCM, Summer ٢٠١٤, Vol ٣, No ٣.

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٢. **M.H. Sanati**, M. Jahanshahi and Z. Babaei.
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Haplotype markers for diagnosis of Ataxia Telangictasia, ٢٩٦٥٦, May ٢٠٠٤, Organization for submitting the official documents of the Intelectual Property Right, Islamic Republic of Iran.

٤. Zahra Elyasi Gorgi, Amir Amiri yekta, **Mohammad Hossein Sanati**, Hamid Gourabi, Saeid Hasani, a recombinant cell line for expression of Iranian Turkmen-Thoroughbred Horse Follicle Stimulating Hormone using *Pichia pastoris*, **٢٠١٣, Tehran, Iran**

**٥. محمد حسين صنعتى، بهاره رجائى**
**"توليد سلولهاي بنيادي پرتوان القاء شده انساني (hiPSCs) بيان كننده ژنهاي OSKM به صورت القايي، به عنوان مدل سلولى از بيمار ديابتي" - سال ١٣٩٤-تهران- ايران**

**Projects:**

a. As Principal investigator:
١- Preparation of the *National Strategy for Biotechnology Development*. In this ٣ year project, I had the leadership of more than ٢٠٠ specialists in ٨ research groups. The result of this

project was the finalization of the National Strategic Plan for Biotechnology development in Iran, which was ratified by the Iranian government in ٢٠٠٥.

٢- Research project titled: Study of the presence of antibodies against Borrelia proteins in Sera and CSF of Multiple Sclerosis patients and determinig the immunological activity of these proteins in animal models.

٣- Cloning auto-antigenes in Multiple Sclerosis.

٤- Production of Recombinant Human Growth Hormone (phase ٢ and ٣).

٥- Studying the Mutation of Ataxia Telangictasia in Iranian patients.

٦- Studying the genetic factors of Multiple Sclerosis.

٧- Preparation of Encyclopaedia in Biotechnology and Genetics.

٨- Determinig the normal level of biochemical factors in infants' sera.

٩- Genetic study of hearing impairments in Iranian patients.

١٠- Cloning and Expression of Human Gamma Interferon in Bacteria.

١١- Genetic study of Visual Impairment (Congenital Glaucoma). This is a collaboration research project granted by WHO-COMSTECH.

b. As Collaborating Investigator:

١- The National project for Capacity Building in Biosafety. This project was performed in the frameworks and as part of the Cartagena Protocol on Biosafety, in national level in the Environmental Department of Iran and my responsibilities in this project included holding educational workshops and preparing the overall strategy of the project and prepating final report.

٢- Studying the mutations of the G٦PD gene in patients with favism in the Northern Provinces of Iran.

٣- Production of Recombinant Gama Interferon. A Research Project Granted by NIGEB.

٤- Production of Novel Hormone (GnRH) for Induction of Spawning in Carp, Trout, and Sturgeons, a Research Project Granted by NIGEB.

**Various Executive and Scientific Activities:**

١- Chairman and Editor-in-Chief of the Iranian Journal of Biotechnology (IJB) since ٢٠٠٣ to ٢٠٠٧.

٢- Member of the *Khwarazmi Scientific Award* judgment committee, since ٢٠٠١ till now.

٣- Member of the evaluation committee of the field of Genetics in the Iranian Ministry of Health since ٢٠٠٠ to ٢٠٠٣.

٤- Secretary of the National Biotechnology Committee (Iranian Ministry of Science, Research and Technology) since ٢٠٠٠ to ٢٠٠٥.

٥- Secretary of the National Biosafety Committee (Iranian Ministry of Science, Research and Technology) from ١٩٩٩ to ٢٠٠٥.

٦- Secretary of the first International Bioethics Congress held from ٢٦th to ٢٨th March ٢٠٠٥, Tehran, Iran.

٧- Secretary of the ١st National Biotechnology Congress, Tarbiat Modarres University, Tehran, Iran in ١٩٩٩.

٨- Member of the Genetic Committee, National welfare Organization, Tehran, Iran, ٢٠٠٢ – ٢٠٠٤.

٩- Chairman of the Iranian Biotechnology Society, ٢٠٠٠ – ٢٠٠٦.

١٠- Member of the Editorial Board of the Scientific Journal named: Archive of Razi, since ٢٠٠٠ until now.

١١- Member of the Editorial Board, Iranian Journal of Immunology, Asthma and Allergy, year ٢٠٠٣ until now.

١٢- Member of the “Federation of European Biotechnology (FEB)”, since year ٢٠٠٢ until now.
١٣- Member of the Iranian Genetic Society, year ٢٠٠٠ until now.
١٤- Member of the "Iranian Ethics Society for Science and Technology" as well as the member of Founder and management Committee, since year ٢٠٠٥.
١٥- Governor for International Center for Biotechnology and genetic engineering (ICGEB), Trieste, Italy, ١٩٩٩-٢٠٠٥.
١٦- Member of the Biotechnologi Information of Asia (BINASIA), as a national representative for Iran, ٢٠٠٣-٢٠٠٦, Coordinated by KRIBB and APCTT.
١٧- Member of the Iranian Delegation Team at the Negotiation Meetinge for International Biosafety Protocol, UNEP/CBD:
- ١٤ -١٩ and ٢٢-٢٣ Feb. ١٩٩٩, Sixth Ordinary Meeting of the Ope-Ended Ad Hoc working Group on Biosafety Protocol, and the Extraordinary Meeting of the Conference of the Parties to the Convesion on Biologicad Diversity, Cartagena, Colombia.
- ٢٩ Jan. ٢٠٠٠, Organizational Meeting of the Intergovenmental Committee for the Cartagena Protocol on Biosafety, Montreal, Canada.
- ١١-١٥ Dec. ٢٠٠٠, first Meeting of the Intergovenmental Committee for the Cartagena Protocol on biosafety, Montpellier, France.
- ٢٢-٢٦ Apr. ٢٠٠٢, Third Meeting of the Intergovernmental Committee for the Cartagena Protocol on biosafety, The Hague, Netherland.
- ٢٣-٢٧ Feb. ٢٠٠٤, First Meeting of the Conference of the Parties Serving as the Meeting of the Parties for Cartagena Protocol on Biosafety, Kuala Lumpur, Malaysia.

**Awards:**
١. Selected manager according the criteria identified by Ministry of Science, Research and Technology in ٢٠٠١ and receiving the award from Iranian President Seyed Mohammad Khatami.
٢. Award for top research project in biotechnology "Production of Recombinant Human Growth Hormone", ٢٠٠٠, Tehran, Iran.
٣. Award for best oral paper presentation in the general biological science conference in ١٩٩٤ in Perth, Western Australia.
٤. Award for top paper presented in the ٤٧th meeting of the heads of universities and research centers of Iran in ٢٠٠٢.
٥. Award from Iranian President Seyed Mohammad Khatami for Organizing the first International Bioethics Congress in Iran and paper Presentation in this Field.
٦. Award received from Iranian Minister of Science, Research and Technology, for Carrying out the "National Strategic Plan for Development of Biotechnology across the Country" Project and Success in Preparation of the Documents which was ratified by the Government.

**Thesis: As Supervisor**

١. Study of association between MRP١ gene and multidrug resistance in leukemic patients. Theisi by Masoud Golalipour for Phd degree in molecular genetic, Tarbiat Modarres University, Tehran, Iran, ٢٠٠٧.

٢. Linkage analysis of some autosomal recessive deafness loci and detection of new mutation in some population of Iran. Thesis by Abdorrahim Sadeghi for PhD degree in molecular genetic, Tarbiat Modarres University, Tehran, Iran, ٢٠٠٦.

٣. Investigation of relationship between *NDUFS١* gene with Multiple Sclerosis. Theisi for MsC degree in molecular genetic by Zohre Baratieh, Khatam University, Tehran, Iran, ٢٠٠٧.

٤. Isolation and Characterization of Reacting Peptides with antibody Isolated from Vitiligo Patients Sera, Thesis by Z. Jadali for PhD Degree in Medical immunology, Tehran University of Medical Sciences, Tehran, Iran, ٢٠٠٦.

٥. Linkage analysis of DNFB٣ and DNFB٢١ Loci in Non Syndromic Autosomal Recessive Hearing Loss in Iranian Population, Thesis By M.H. Behroozi-fard for MS.c Degree in Cell and molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٥.

٦. Investigation of Four SNP Markers as well as a YAP Marker of Y Chromosome in Three Iranian Ethnic group (Fars, Tork and Kord). Thesis By R. Abbasi-Zamharir for MS.c Degree in Cell and molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٤.

٧. Screening of ١٢-mer Random Peptide Phage Display Library on Leprosy Patient Sera, Malek Ashtar University, Thesis by M.R. Khatami for MS.c Degree in Molecular Biotechnology, Tehran, Iran, ٢٠٠٣.

٨. Mutation and Chromosomal Haplotype Analysis in ATM Gene in Iranian Ataxia Telagictasia Patients, Thesis By S. Lotfipanah for MS.c Degree in Cell and molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٤.

٩. Study of C٧٧G Mutation in Protein Tyrosin Phosphatase Gene CD٤٥ in Hepatitis Autoimmune Patients, Thesis By F. Sadat Esteghmat Hanzaei for MS.c Degree in Cell and Molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٤.

١٠. Mutation Analysis in Iranian Ataxia Telangictasia Patients, Thesis By H. Atashi Shirazi for MS.c Degree in Cell and Molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٢.

١١. Analysis of Tri-Nucleotide Repeats (CAG) in Iranian Families Suffering from Huntington Disease, Thesis By F. Hormozian for MS.c Degree in Human Genetics, Azad University, Tehran, Iran, ٢٠٠٠.

١٢. Study of the Relationship between Mitochondrial Haplogroup M and Multiple Sclerosis diseases, Thesis by M. Timouri for MS.c Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ٢٠٠٣.

۱۳. Detection of Polymorphism In the Apo-E Region and the Association with Progression of Multiple Sclerosis, Thesis By V. Hadavi for MS.c Degree in Human Genetic, Faculty of Health, Tehran Medical Science University, Tehran, Iran, ۲۰۰۳.

۱٤. Investigation of mutation in Exon ۳ of Gene CYP۱B۱ in ٦۰ Iranian Family Suffering from Glaucoma. Thesis By F. Chitsazan for MS.c Degree in Cell and Molecular Biology, Faculty of Science, Tehran University, Tehran, Iran, ۲۰۰٥.

۱٥- Effect Of vitamin E and D۳ on cell death and remyelination of hippocampal formation of rat following local injection of ethidium bromide, thesis By Mehdi Goudarzvand for PhD degree in physiology, T.M.U, Tehran, Iran

۱٦. Proteomics Profiling of the Central Nervous System in Murine Exprimental Autoimmune Encephalomylities befor and after treatment with Neural precursor Cells Drived from Mouse Emberionic Stem Cell, Thesis by S.A. Shahzadeh Fazeli for PhD Degree in Molecular Genetic, National Institute for Genetic Engineering and Biotechnology, Teharn, Iran, ۲۰۱۰.
, ۲۰۰۹

۱۷. The role of BAX, BAK and BIK gene mutations in ataxia telangictasia, and AT with lymphoma or leukemia, and in the ATM carrier and reaction of these genes in cancers of lymphoma and leukemia, Thesis by Anna Isaian for PhD Degree in Molecular Genetic, National Institute for Genetic Engineering and Biotechnology, Teharn, Iran, ۲۰۱۰.

۱۸. Investigation of the molecular techniques for the diagnosis of thalasemia and identifying the method of choice, Thesis by Fatemeh Kashani Motlagh for M. Sc Degree in Biology/Biochemistry, Payam Noor University, Teharn, Iran, ۲۰۱۰.

۱۹. Investigation of the role of maternal KIR and paternal HLA-C genotype in recurrent miscarriage, Thesis by Mona Khosravi, Azarbaijan University of Tarbiat Moalem, for M.Sc Degree in Cell and Molecular Biology, Azarbaijan, Iran, ۲۰۱۰.

۲۰. Study of relationship between endothelial nitric oxide synthase polymorphism & recurrent miscarriage, Thesis by Fatemeh Abbasi, Azrbaijan University of Tarbiat Moalem, for M.Sc Degree in Cell and Molecular Biology, Azarbaijan, Iran, ۲۰۱۰.

۲۱. Study of association between multiple sclerosis and the polymorphisem in ILII alpha receptor gene, Thesis by Mostafa Ali for M.Sc Degree in Cell and Molecular Biology, Azad University, Tehran, Iran, ۲۰۰۹.

۲۳. Study of association between multiple sclerosis and the polymorphisem in mitochondrial polymerase gama gene, Thesis by Hossein Soltanzadeh for M.Sc Degree in Cell and Molecular Biology, Azad University, Tehran, Iran, ۲۰۰۸.

۲٤. Study of the expression patern of splice variants of N-type voltage-dependent calcium channel alpha ۱ subunit in rat hyppocampas and lumber spinal cord, Thesis by Sareh Asadi for M.Sc Degree in Cell and Molecular Biology, Tarbiat Modarres University, Tehran, Iran, ۲۰۰۸.

٢٥. Study of hot spot mutations in Iranian patients suffered from cystic fibrosis, Thesis by Mahnaz Amiri for M.Sc Degree in Cell and Molecular Biology, Khatam University, Tehran, Iran, ٢٠٠٣.

٢٦.proteomic profiling of the central nerveous system in murine experimental autoimmune encephalomyelitis before and after treatment with mouse embeyonic stem cell-derived neural precursor cells,thesis By Seyed Abolhassan Shahzadeh Fazeli for Ph.D Degree in molecular Genetic, Ministry of science,research and Technology National Institute of Genetic Engineering and Biotechnology,Tehran,Iran,٢٠١٠

٢٧.Investigation of relation between COX٥B gene expression and multiple sclerosis disease,thesis By jamshid motaei for M.sc Dgree in Molecular and Cellular Biology, Ministry of science,research and Technology National Institute of Genetic Engineering and Biotechnology,Tehran,Iran,٢٠١٢

٢٨.The measurement of gene expression for the Th١/Th٢ associated cytokines and transcription factors in patiants with Graves disease thesis By Yegane Eshaghkhani for M.Sc Degree in Molecular and Cellular Biology, Ministry of science,research and Technology National Institute of Genetic Engineering and Biotechnology,Tehran,Iran,٢٠١٢

٢٩.Investigation of relation between Ndufv٢ gene and Multiple Sclerosis disease,thesis By Mahboubeh Akbari for M.Sc Degree in Molecular and Cellular Biology, Azarbayjan university of Tarbiat Moallem,Azarbayjan,Iran ٢٠١٢.

٣٠.Investigation of relationship between ATP٥B and Multiple Sclerosis disease,thesis By Arien Mirmiran for M.Sc Degree in Molecular and Cellular Biology, National Institute of Genetic Engineering and Biotechnology,Tehran,Iran,٢٠١١

٣١. Y chromosome Genetic diversity in Iranian population ,thesis By Zahra Lashgary for Ph.D Degree in Molecular Genetic Ministry of science,research and Technology National Institute of Genetic Engineering and Biotechnology,Tehran,Iran, ٢٠١٠

٣٢- Cloning and Gene Expression of Bovine follicle Stimulating Hormone in Pichia Pastoris, thesis By Somayeh Ebrahimi For M.Sc Degree in animal science, University of Zanjan, Tehran,Iran, ٢٠١٢

٣٣- The measurement of gene expression for the Th١-Th٢ associated transcription factors in patients with Guttate Psoriasis, thesis By Elaheh Vanaki for M.Sc Degree in Molecular and Cellular Biology, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran, ٢٠١١

٣٤- Investigation of relationship between NDUFS٨ Gene and Multiple Sclerosis disease, thesis By Elaheh Naraghi for M.Sc Degree in Molecular and Cellular Biology, National Institute of Genetic Engineering and Biotechnology,Tehran,Iran,٢٠١١

٣٥- Effect of oxidative Stress on MicroRNAs Expression in testis of Mature Mouse, thesis By Nayeralsadat Fatemi for M.Sc Degree in Genetic Science, Shahrekord University, Tehran, Iran, ٢٠١٢

٣٦- Investigation of expression level and nucleotide variation of the BAX gene in Iranian patients with transitional cell carcinoma of the bladder, thesis By Bahman Golestani Eimani for Ph.D Degree in Biology- molecular Genetics, ,research and Technology National Institute of Genetic Engineering and Biotechnology, Tehran, Iran, ٢٠١٢

٣٧- Effect of miR-٣٧٥ expression in Pancreatic Islet development of human induced Pluripotency stem cells, thesis By Rehaneh Lahmy for PhD degree in Genetics, T.M.U University, Tehran, Iran, ٢٠١٣

٣٨- Cloning and Gene expression of ovine follicle stimulating hormone in pichia pastoris, thesis By Masumeh Ahanjan for M.Sc Degree in Animal Science, Zanjan University, Tehran, Iran, ٢٠١٢.

٣٩- ٣٩- Molecular identification of the most prevalent mutation of glucose ٦-phosphat dehydrogenase (G٦PD) gene in deficient patient in state of Gilan, thesis By Zahra Hajebrahimi for M.Sc Degree in Genetics, T.M.U, Tehran,Iran, ٢٠٠٣

٤٠. Design and synthesize the biosensor DNA probe for early diagnosis of breast cancer, thesis by Sara Yazdanpanah for M.Sc degree in medical engineering, Amir Kabir University, Tehran, Iran, ٢٠١٢.

٤١. Cloning and Gene expression of human follicle stimulating hormone in Chinese Hamster Ovary (CHO) cell line, thesis By Mona Khoshbakht for M.Sc Degree in molecular biology, Islamic Azad University, Science and Research Branch, Tehran, Iran, ٢٠١٣.

٤٢. Cloning and Gene expression of equine Follicle Stimulating Hormone (eFSH) in Pichia Pastoris. Thesis by Zahra Elyasi Gorji for M.Sc Degree in Animal Breeding and Genetics, Gorgan University, Iran

٤٣- Effect of miR-٣٧٥ expression in Pancreatic islet development of human induced pluripotency stem cell. Thesis by Reyhaneh Lahmy for PhD Degree of genetics, T.M.U. Tehran, Iran, ٢٠١٣

٤٤. Study of Apo lipoprotein E (APOE) gene expression in arthrosclerosis patients in compare to healthy control samples in Turk ethnic population in Northwest of Iran, thesis By Zahra Mirzaei for M.Sc Degree in molecular biology, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, ٢٠١٣.

٤٥. The survey on CCR٥-Δ٣٢ mutation and CCR٥-٥٩٣٥٣(C/T) polymorphism in Iranian chronic hepatitis B infected patients Thesis by Sajjad Jalali Khouzani for M. Sc Degree in molecular biology, University of Science & Culture, Tehran, Iran, ٢٠١٣.

٤٦. Mutation Detection of Spinal Mascular Atrophy by a Colorimetric Method which uses Gold Nanoparticles. Thesis by Hosssein Ahmadpuor- Yazdi for PhD Degree of Nanomedicine, Shahid Beheshti University, Tehran, Iran, ٢٠١٣.

٤٦- Genetic Linkage analysis of ٨ loci involved in autosomal recessive non- syndrome hearing loss(ARNSHL) in an Iranian Population and studing pathogenicity of novel allele variants by

molecular modeling. thesis By Somayeh Reiisi for PhD Degree of molecular Genetic, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, ٢٠١٤

٤٧- Investigation of CCR٥ gene expression in patients with Multiple Sclerosis and comparsion with the control group. thesis By Shima Bayat for M. Sc Degree in Molecular and Cellular Biology biology, Nour Danesh Insttitute of higher education, Esfahan, Iran, ٢٠١٤

٤٨- The measurement of gene expression for the Th١/Th٢ associated transcription factors in patiants with Alopecia Areata. thesis By Soha Sadeghi for M. Sc Degree in Molecular and Cellular Biology biology, Nour Danesh Insttitute of higher education, Esfahan, Iran, ٢٠١٤

٤٩- Identification of the promoter and exon٢ mutations in CDH١ gene in Iranian patients with gastric cancer. Thesis By Fatemeh Shabani for M. Sc Degree in Molecular and Cellular Biology biolog, Nour Danesh Insttitute of higher education, Esfahan, Iran, ٢٠١٤

٥٠-Assessment of changes in gene expression of serotonin receptor(٥-HT٣$R_A$) and mono amino oxidase(MAO-A) on peripheral blood mononuclear cells in patient with Multiple Sclerosis Thesis by Toktame Deylami for M. Sc Degree in Molecular and Cellular Biology, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, ٢٠١٥.

٥١. Evaluation of Functional consequences of (rs٢٩١٠١٦٤) G > C Singel Nucleotide Polymorphism at has-mir-١٤٦a in breast cancer patients and healthy women Thesis by Mahboobeh Meshkat for M. Sc Degree in Molecular and Cellular Biology, Nour Danesh Insttitute of higher education, Esfahan, Iran, ٢٠١٥.

٥٠- Assessment of some Proteolipid Protein epitopes' antigenicity in Multiple Sclerosis. Thesis ByZahra Zamanzadeh for PhD Degree in Medical Biotechnology. National Institute for Genetic Engineering and Biotechnology, Tehran, Iran,٢٠١٦

٥١- The Study of β-Like Cell Programming Fate of Human Induced Pluripotent Stem Cells (hiPSCs) Derived from Type I Diabetic Patients by Using of Signaling Molecules. Thesis By Bahareh Rajaei for PhD Degree in Medical Biotechnology. National Institute for Genetic Engineering and Biotechnology, Tehran, Iran,٢٠١٦

٥٢- Evalution of T-cell effect on nerve cell by chitosan and gelatin scaffold for modeleing of multiple sclerosis disease. Thesis By Amir Salati for PhD Degree in Medical Biotechnology. National Institute for Genetic Engineering and Biotechnology, Tehran, Iran,٢٠١٦

٥٣- Study of single nucleotide polymorphism in rs٢٤١٤٠٩٦ region of CYP١٩ gene in patients with polycystic ovary syndrome. Thesis By Nayyereh Sadat Amiri Tehrani for M. Sc Degree Molecular and Cellular Biology Nourdanesh Institute of Higher Education, Esfahan, Iran. ٢٠١٧

٥٤-Study of Y chromosome STRs application in paternity identification. Thesis By Zahra Shahnazari. M. Sc Degree Molecular and Cellular Biology Nourdanesh Institute of Higher Education, Esfahan, Iran September ٢٠١٧

٥٥- Evaluation of expression Let-٧i in Multiple Sclerosis patients. Thesis By Zahra Behgar for M. Sc Degree in molecular and cellular biology. National Institute for Genetic Engineering and Biotechnology. Tehran, Iran ٢٠١٨

٥٦- Evaluation of Expression MicroRNA hsa-mir٥١٣a-٥p in Multiple Sclerosis whit patients and healthy Thesis by Kowsar Falahati Shib Abandani for M. Sc Degree in molecular and cellular biology. National Institute for Genetic Engineering and Biotechnology. Tehran, Iran ٢٠١٨

**Thesis: as Co- Supervisor**

١. Point Mutations Analysis in LHON Patients with Nerve degeneration. Thesis By F Sharifpanah for MS.c Degree in Human Genetic, Research and Science Unit, Azad university, Tehran, Iran, ٢٠٠١.

٢. Isolation and identification of Sulfide/Sulfoxide Monooxygenase Gene from Rhodococcus FMF, Thesis by M. Kazemi for MS.c Degree in Genetic, Research and Science Unit, Azad University, Tehran, Iran, ٢٠٠٢.

٣. Biochemical Diagnosis and Determination of Q١٨٨R, K٢٨٥N, L١٩٥P, X٣٨٠R and Q١٦٩K Mutations in Galactosemic Patients, Thesis By N. Naghibzadeh for MS.c Degree in Human Genetic, Research and Science Unit, Azad university, Tehran, Iran, ٢٠٠٣.

٤. Study of Interaction between Myelin Basic Protein (MBP) and Zn and Cu Ions, Thesis By S Saeidi for MS.c Degree in Biochemistry, Institute for Biophysics and Biochemistry, Tehran University, Tehran, Iran, ٢٠٠٠.

٥. Study of Y Chromosome Microdeletions in Iranian Infertile Men, Thesis By S Ghavam-Poor for MS.c Degree in Cell and molecular Biology, Faculty of sciences, Tehran University, Tehran, Iran, ٢٠٠٣.

٦. An Investigation of Chromosomal Abnormalities and physiological Deficiencies in Mentally Retard Boys, Thesis By B. Bayat for MS.c Degree in Biology, Faculty of sciences, Shahid Baheshti University, Tehran, Iran, ١٩٩٨.

٧. Study of G٦PD Gene Mutations in Patients from Golestan Province of Iran, Thesis By L. Najafi for MS.c Degree in Genetic, Faculty of Basic Sciences, Tarbiat Modarres University, Tehran, Iran, ٢٠٠٣.

۸. Study of Mitochondrial Haplogroup J, M, BM and N in Iranian Families and its relation to LHON Disease, Thesis by M. Vakilian for MS.c Degree in Human Genetic, Faculty of Health, Tehran Medical Science University, Tehran, Iran, ۲۰۰۳.

۹. Identification of Molecular Mutations of G٦PD Gene in Deficient Patients in State of Mazandaran, Thesis by A. Mesbah-Namin for PhD Degree in Clinical Biochemistry, Faculty of Basic Medical sciences, Tehran, Iran, ۲۰۰۱.

۱۰. Study of G٦PD Gene Mutations in Patients from Gilan Province of Iran, Thesis By Z. Haj-Ebrahimi for MS.c Degree in Genetic, Faculty of Basic Sciences, Tarbiat Modarres University, Tehran, Iran, ۲۰۰۳.

۱۱. Analysis of Four Locus (DaT۱, D۱S۸۰, D۱۷S٥ and ApoB) Markers In three Ethnic Group Azeri Fars and Kord. Thesis by N. Jahangir Soltani for MS.c Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ۲۰۰٥.

۱۲. Study of Four Microstelite Markers (DYS۱۹, DYS۳۸۸, DYS۳۹۰ and DYS۳۹۱) in three Province of Iran Fars, Azarbayejan Sharghi and Kurdistan, Thesis by R. Mirzazadeh Nafe for MS.c Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ۲۰۰٥.

۱۳. Study of Four Markers (D۱۹S۲۰, ApoB, D۱۷S٥ and D۱S۸۰) in two Province of Iran Lorestan and Sistan-Baloochestan, Thesis by A Mahianeh for MS.c Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ۲۰۰٥.

۱٤. Study of Four Y-STR Markers (DYS۳۹۲, DYS۳۹۳, DYS۳۹۱ and DYS۳۸۹II) In three Ethnic Group in Iran, Azari, Fars and Kord, Thesis By M. Marvi for MS.c Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ۲۰۰٥.

۱٥. Study of Four Polymorphic Allele in Y-Chromosome In three Ethnic Group in Iran, Azari, Fars and Kord, Thesis By M. Amidi for MSc Degree in Cell and Molecular Biology, Research and Science Unit, Azad University, Tehran, Iran, ۲۰۰٥.

۱٦. Study of Four Mutations W۱۲۸۲X, G٥٥۱D, G٥٤۲X, DeltaF٥۰۸ and N۱۳۰۳K in Iranian Patients affected to Cystic Fibrosis, Thesis by M. JalaliRad for MS.c Degree in Cell and Molecular Biology, Faculty of Science, Gilan University, Iran, ۲۰۰٥.

۱۷. Production and optimization of gelatin nanoparticle for drug delivery, thesis By Zahra Babaei for MS.c Degree in chemical engineering, Noshirvani University, Babol, Mazandaran, Iran, ۲۰۰٥.

۱۸. Linkage analysis of three loci in non syndromic autosomal recessive deafness patients from Qom and Markazi provinces of Iran, thesis By M. Sadat Taghavi for MS.c Degree in Cell and Molecular Biology, Azad university, Tehran, Iran, ۲۰۰۸.

۱۹. Cloning, expression and evaluation of plasmodium vivax and P. Falciparum region of Merozoite Surface Protein ۱ in animal model, thesis By Akram Abouie Mehrizi for PhD Degree in Molecular Genetics, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, ۲۰۱۰.

٢٠. Determination of frequency mutations in the first half of exon ٢ of CYP١B١ gene among ٦٠ Iranian patients afflicted with Primary Congenital Glaucoma, thesis By Btsabeh Khoramian Tusi for M. Sc Degree in Cell and Molecular Biology, Tehran University, Tehran, Iran, ٢٠٠٦.

٢١. Identifying the entrepreneurial opportunities in food biotechnology industry in Iran, thesis By Hadei Sanati for M. Sc Degree in entrepreneurial, Tehran University, Tehran, Iran, ٢٠١٣.

٢٢. Study of ATBF١ genetic alteration among Iranian gastric cancer patients, thesis By Fatemeh Norouzi for M. Sc Degree in Biochemistry, Tehran University, Tehran, Iran, ٢٠١٣.

٢٣. Cloning and Gene expression of fish follicle stimulating hormone in pichia pastoris, thesis By Misam Ghanbari for M. Sc Degree in Molecular and Cellular Biology, Azarbayjan university of Tarbiat Moallem, Azarbayjan, Iran, ٢٠١٣.

٢٤. Study of the relationship between HLA-G gene polymorphism and human implantation failure, thesis By Zahra Kouroshli for M. Sc Degree in molecular biology, Islamic Azad University, Science and Research Branch, Tehran, Iran, ٢٠١٣.

**Publications**

**a. Published books written in Farsi language Except for No. ٧ which is in both Farsi and English and No. ٨ which is in English.**

١Genetic and You, General Information in Genetic, **M.H. Sanati**, Ali Reza Mowjoodi and Sakineh Abbasi, ١٩٩٨.
٢. Genetic Engineering, Technology for manipulation of Living Organisems, **M.H. Sanati**, M. Khazab, C. Azeempoor, In Farsi, ٢٠٠٠.
٣. International Biosafety Protocol, Translation of Cartagena Protocol to Farsi, **M.H. Sanati** and Colleagues, ٢٠٠١.
٤. Biotecnology, a solution to solve mankind problems during the ٢١th century, **M.H. Snati** and N. Ismailzadeh, ٢٠٠١.
٥. Biosafety Guidlines, In Farsi, **M.H. Sanati** and Colleagues, ٢٠٠١.
٦. Bioethics and Biotechnology, **M.H. Sanati** and Colleagues, ٢٠٠٢.
٧. The Tehran Statement and the Final Report of the International Congress of Bioethics in Iran, A book which has been written in cooperation and financial support by UNESCO In both English and Farsi Language, **M.H. Sanati** and Colleagues, ٢٠٠٦.
٨. Understanding Bioethics, **M.H. Sanati** and Colleagues, ٢٠٠٥.
٩. Editor in Cief and co-authors for the "Encyclopedia of Biotechnology and Genetics, ٢٠٠٩.
١٠. Application of Bioinformatics in Human Genetics, **M.H. Sanati** and Colleagues.٢٠١٦
١١.

**b. Selected Abstract presented in different scientific congress:**

۱. Haplotype Analysis of Related ATM Markers Facilitate Prenatal Diagnosis in Iranian Ataxia Telangictasia Patients. Bayat B, Sanati M, Alyasin A, Moein M, Farhoodi, Eesaian A, Human Genome Diversity in Islamic Countries Seminar, ۷-۸ May ۲۰۰۲ Tehran, Iran.

۲. Investigation of mtDNA Haplogroups and Disease (Report from Iran)
Houshmand M., Sharifpanah F, Alemohamad A, Rahmani M, Joughehdost S,Babrzadeh F., Vakilian M, Sanati MH, Human Genome Diversity in Islamic Countries, ۷-۸ May, ۲۰۰۲, Tehran, IRAN

۳. Some Molecular Genetic Aspects of Hearing Loss in Iranian Population.
F. Alasti, M. H. Sanati, Ed. Wicox, Salehi Tabar, A. Mojoodi and T.B. Friedman, Human Genome Diversity In Islamic Countries, Seminar ۷-۸ May ۲۰۰۲, Tehran,Iran.

٤. Absence of Mitochondrial DNA Intergenic COII/ t RNA Lys ۹ bp Deletion within a sample of Iranian Populatons, Alemohamad S., Rahmani M, Houshmand M., Farhoud D, S., Sanati M.H, Human Genome Diversity In Islamic Countries Seminar, ۷-۸ May ۲۰۰۲, Tehran, Iran.

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