

CURRICULUM VITAE

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CURRENT SITUATION:

- Researcher, Medical Genetics Department, NIGEB, (Since March 1997).

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EDUCATIONAL QUALIFICATIONS:

1991-1996 Ph.D. (Biotechnology) at Biotechnology Research Group,
School of Biological and Environmental Sciences, Murdoch University, Perth, Western Australia
1985-1988: M.Sc. (Biochemistry), Biochemistry Department, School of
Medical Sciences, Tarbiat Modarres University, Tehran, Iran
1977-1984: B.Sc. (Chemistry), Chemistry Department, School of Sciences,
Ferdousi University, 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:

2006- Until now: Researcher at the Medical Genetic Department, National Institute for Genetic
Engineering and Biotechnology, Tehran, Iran.

1997 – 2005: President of the National Institute for Genetic Engineering and Biotechnology,
Tehran, Iran.

1995: Part time research assistant (work on multiple sclerosis diseases), Murdoch University,
Western Australia .

1996: Full time researcher in Murdoch University, production of recombinant monoclonal
antibody against the Rizhochtomi Saloon antigens in "Phage Display System".

1994: Demonstrator (practical molecular biology for undergraduate students), Murdoch
University, Western Australia.

Papers published in Scientific Journals:

- 153-** Dina Zohrabi , Kazem Parivar , **Mohammad Hossein Sanati** , Nasim Hayati Roodbari. The effect of Crocin on the Pituitary-Gonadal Axis and Kiss-1 gene expression in Female Wistar Rats. INTERNATIONAL JOURNAL OF FERTILITY AND STERILITY. Feb 2017
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- 151-** Amir Amiri-Yekta, Charles Coutton, Zine-Eddine Kherraf, Thomas Karaouzène, Pauline LeTanno, **Mohammad Hossein Sanati**, Marjan Sabbaghian, and..... Whole-exome sequencing of familial cases of multiple morphological abnormalities of the sperm flagella (MMAF) reveals new DNAH1 Mutations. Human Reproduction, Vol.31, No.12 pp. 2872–2880, 2016
- 150-** Samiie Pouragahi, Marjan Nassiri-Asl, Mohammad Ali Sahraian, Mehdi Sadeghi, Abdolal Banki, Zahra Zamanzadeh, Mitra Ataei, and **Mohammad Hossein Sanati**. Utility of Myelin Basic Protein as an Early Prognostic Biomarker in Multiple Sclerosis. Iran Red Crescent Med J, In Press, 2016
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145-Zahra Zamanzadeh, Ghasem Ahangari, Mitra Ataie, Samie Pouragahi, seyed massood Nabavi, Mehdi Sadeghi, **Mohammad Hosein Sanati**, Myelin proteolipid protein (58-74), could it be as a candidate putative epitope associated with pathogenesis of multiple sclerosis? Iranian journal of allergy, asthma and immunology. In Press, 2016.

144- Zahra Zamanzadeh, Ghasem Ahangari, Mitra Ataie, Samie Pouragahi, seyed massood Nabavi, Mehdi Sadeghi, **Mohammad Hosein Sanati**. In Silico Perspective on Prediction of PLP's Epitopes involved in Multiple Sclerosis. Iranian journal of biotechnology. Accepted. 2016.

143- Newshan Behrangi, Hossein Ghafoori, Zeinab Farahmand, Elham Mohammad Khani, **Mohammad Hossein Sanati**, Comparison among Cornelian Cherry and Prunus cerasus According to Phenolic Content and Antioxidant Capacity by Three Various Methods of Extraction. Food and Nutrition Sciences Journal. 12(2015): 1166-1173.

142- Sadeghi S, Sanati MH, Taghizadeh M, Mansouri P, Jadali Z. Study Of Th1/Th2 Balance In Peripheral Blood Mononuclear Cells Of Patients With Alopecia Areata. Acta Microbiologica et Immunologica Hungarica, 62 (3), pp. 275–285 (2015)

141- Zahra Elyasi Gorgi, Amir Amiri yekta, Hamid Gourabi, Saeed Hassani, Nayerehsadat Fatemi, Saeed Zerehdaran, Faezeh Vakhshiteh, **Mohammad Hossein Sanati**, Cloning and expression of Iranian Turkmen-Thoroughbred Horse Follicle Stimulating Hormone using Pichia pastoris. Iranian Journal of biotechnology. Accepted,

140- 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. 2015

139- Sajjad Jalali, Zohreh Sharifi, **Mohammad Hossein Sanati**, Abolhassan Shahzadeh Fazeli, Survey on CCR5-Δ32 mutation in healthy individuals and patients with chronic hepatitis B referred to the clinical laboratory of Iranian Blood Transfusion Organization, Koomesh. Spring 2014, 15 (3): 359- 364

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spinal muscular atrophy using gold nanoprobe, IET (The International Journal of Technology) Nanobiotechnology, 10.1049/iet.2014, 1-6.

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- 112.** Abbasi F, **Sanati MH**, Habibi R, Chapar Zadeh N, Gourabi H, Study of the relationship between VNTR Polymorphisem in intron 4 & Glu298Asp polymorphisem in 7 exon of endothelial nitric oxide synthase gene and recurrent spontaneous abortion, *Modern Genetic Journal*, Vol. 6 NNo 4, 2011, 19-26.
- 111.** L Andonian, S Rezaie, A Margaryan, DD Farhud, K Mohammad, K Holakouie Naieni, MR Khorramizadeh, **M H Sanati**, M Jamali, P Bayatian¹, L Yepiskoposyan, Iranian Azeri's Y-Chromosomal Diversity in the Context of Turkish-Speaking Populations of the Middle East, *Iranian J Publ Health*, Vol. 40, No.1, 2011, pp.119-127.
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- 108.** Zahra Lashgary, Ahmad Khodadadi, Yoginder Singh, Seyed Massoud Houshmand, Frouzandeh Mahjoubi, Prithviraj Sharma, Shweta Singh, Mahtab Seyedin, Amit Srivastava, Mirtra Atae, Zeinab Sadat Mohammadi, Nima Rezaei, Rameshwar N.K. Bamezai & **Mohammad Hossein Sanati**, Y chromosome diversity among the Iranian religious groups: a reservoir of genetic variation, *Annals of human Biology*, In Press.
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Patent:

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۵. محمد حسین صنعتی، بهاره رجائی

"تولید سلولهای بنیادی پرتوان القاء شده انسانی (hiPSCs) بیان کننده ژنهای OSKM به صورت القایی، به عنوان مدل سلولی از بیمار دیابتی" - سال ۱۳۹۴ - تهران - ایران

Projects:

a. As Principal investigator:

- 1- Preparation of the *National Strategy for Biotechnology Development*. In this 3 year project, I had the leadership of more than 200 specialists in 8 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 2005.
- 2- Research project titled: Study of the presence of antibodies against *Borrelia* proteins in Sera and CSF of Multiple Sclerosis patients and determining the immunological activity of these proteins in animal models.
- 3- Cloning auto-antigenes in Multiple Sclerosis.
- 4- Production of Recombinant Human Growth Hormone (phase 2 and 3).
- 5- Studying the Mutation of Ataxia Telangiectasia in Iranian patients.
- 6- Studying the genetic factors of Multiple Sclerosis.
- 7- Preparation of Encyclopaedia in Biotechnology and Genetics.
- 8- Determining the normal level of biochemical factors in infants' sera.
- 9- Genetic study of hearing impairments in Iranian patients.
- 10- Cloning and Expression of Human Gamma Interferon in Bacteria.
- 11- Genetic study of Visual Impairment (Congenital Glaucoma). This is a collaboration research project granted by WHO-COMSTECH.

b. As Collaborating Investigator:

- 1- 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 preparing final report.
- 2- Studying the mutations of the G6PD gene in patients with favism in the Northern Provinces of Iran.
- 3- Production of Recombinant Gama Interferon. A Research Project Granted by NIGEB.
- 4- 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:

- 1- Chairman and Editor-in-Chief of the Iranian Journal of Biotechnology (IJB) since 2003 to 2007.
- 2- Member of the *Khwarazmi Scientific Award* judgment committee, since 2001 till now.
- 3- Member of the evaluation committee of the field of Genetics in the Iranian Ministry of Health since 2000 to 2003.
- 4- Secretary of the National Biotechnology Committee (Iranian Ministry of Science, Research and Technology) since 2000 to 2005.
- 5- Secretary of the National Biosafety Committee (Iranian Ministry of Science, Research and Technology) from 1999 to 2005.
- 6- Secretary of the first International Bioethics Congress held from 26th to 28th March 2005, Tehran, Iran.

- 7- Secretary of the 1st National Biotechnology Congress, Tarbiat Modarres University, Tehran, Iran in 1999.
- 8- Member of the Genetic Committee, National welfare Organization, Tehran, Iran, 2002 – 2004.
- 9- Chairman of the Iranian Biotechnology Society, 2000 – 2006.
- 10- Member of the Editorial Board of the Scientific Journal named: Archive of Razi, since 2000 until now.
- 11- Member of the Editorial Board, Iranian Journal of Immunology, Asthma and Allergy, year 2003 until now.
- 12- Member of the “Federation of European Biotechnology (FEB)”, since year 2002 until now.
- 13- Member of the Iranian Genetic Society, year 2000 until now.
- 14- Member of the "Iranian Ethics Society for Science and Technology" as well as the member of Founder and management Committee, since year 2005.
- 15- Governor for International Center for Biotechnology and genetic engineering (ICGEB), Trieste, Italy, 1999-2005.
- 16- Member of the Biotechnologi Information of Asia (BINASIA), as a national representative for Iran, 2003-2006, Coordinated by KRIBB and APCTT.
- 17- Member of the Iranian Delegation Team at the Negotiation Meetinge for International Biosafety Protocol, UNEP/CBD:
 - 14 -19 and 22-23 Feb. 1999, 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.
 - 29 Jan. 2000, Organizational Meeting of the Intergovenmental Committee for the Cartagena Protocol on Biosafety, Montreal, Canada.
 - 11-15 Dec. 2000, first Meeting of the Intergovernmental Committee for the Cartagena Protocol on biosafety, Montpellier, France.
 - 22-26 Apr. 2002, Third Meeting of the Intergovernmental Committee for the Cartagena Protocol on biosafety, The Hague, Netherland.
 - 23-27 Feb. 2004, First Meeting of the Conference of the Parties Serving as the Meeting of the Parties for Cartagena Protocol on Biosafety, Kuala Lumpur, Malaysia.

Awards:

1. Selected manager according the criteria identified by Ministry of Science, Research and Technology in 2001 and receiving the award from Iranian President Seyed Mohammad Khatami.
2. Award for top research project in biotechnology "Production of Recombinant Human Growth Hormone", 2000, Tehran, Iran.
3. Award for best oral paper presentation in the general biological science conference in 1994 in Perth, Western Australia.
4. Award for top paper presented in the 47th meeting of the heads of universities and research centers of Iran in 2002.
5. Award from Iranian President Seyed Mohammad Khatami for Organizing the first International Bioethics Congress in Iran and paper Presentation in this Field.
6. 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

1. Study of association between MRP1 gene and multidrug resistance in leukemic patients. Theisi by Masoud Golalipour for Phd degree in molecular genetic, Tarbiat Modarres University, Tehran, Iran, 2007.
2. 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, 2006.
3. Investigation of relationship between *NDUFS1* gene with Multiple Sclerosis. Theisi for MsC degree in molecular genetic by Zohre Baratieh, Khatam University, Tehran, Iran, 2007.
4. 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, 2006.
5. Linkage analysis of DNFB3 and DNFB21 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, 2005.
6. 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, 2004.
7. Screening of 12-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, 2003.
8. Mutation and Chromosomal Haplotype Analysis in ATM Gene in Iranian Ataxia Telagictasia Patients, Thesis By S. Lotfipannah for MS.c Degree in Cell and molecular Biology, Khatam University, Tehran, Iran, 2004.
9. Study of C77G Mutation in Protein Tyrosin Phosphatase Gene CD45 in Hepatitis Autoimmune Patients, Thesis By F. Sadat Esteghmat Hanzaei for MS.c Degree in Cell and Molecular Biology, Khatam University, Tehran, Iran, 2004.
10. 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, 2002.
11. 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, 2000.
12. 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, 2003.

13. 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, 2003.
14. Investigation of mutation in Exon 3 of Gene CYP1B1 in 60 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, 2005.
- 15- Effect Of vitamin E and D3 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
16. Proteomics Profiling of the Central Nervous System in Murine Experimental Autoimmune Encephalomyelitis before and after treatment with Neural precursor Cells Driven from Mouse Embryonic Stem Cell, Thesis by S.A. Shahzadeh Fazeli for PhD Degree in Molecular Genetic, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, 2010, 2009
17. The role of BAX, BAK and BIK gene mutations in ataxia telangiectasia, 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, Tehran, Iran, 2010.
18. Investigation of the molecular techniques for the diagnosis of thalassemia and identifying the method of choice, Thesis by Fatemeh Kashani Motlagh for M.Sc Degree in Biology/Biochemistry, Payam Noor University, Tehran, Iran, 2010.
19. 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, 2010.
20. Study of relationship between endothelial nitric oxide synthase polymorphism & recurrent miscarriage, Thesis by Fatemeh Abbasi, Azarbaijan University of Tarbiat Moalem, for M.Sc Degree in Cell and Molecular Biology, Azarbaijan, Iran, 2010.
21. Study of association between multiple sclerosis and the polymorphism in IL2I alpha receptor gene, Thesis by Mostafa Ali for M.Sc Degree in Cell and Molecular Biology, Azad University, Tehran, Iran, 2009.
23. Study of association between multiple sclerosis and the polymorphism in mitochondrial polymerase gamma gene, Thesis by Hossein Soltanzadeh for M.Sc Degree in Cell and Molecular Biology, Azad University, Tehran, Iran, 2008.
24. Study of the expression pattern of splice variants of N-type voltage-dependent calcium channel alpha 1 subunit in rat hippocampus and lumbar spinal cord, Thesis by Sareh Asadi for M.Sc Degree in Cell and Molecular Biology, Tarbiat Modarres University, Tehran, Iran, 2008.

25. 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, 2003.
26. proteomic profiling of the central nervous system in murine experimental autoimmune encephalomyelitis before and after treatment with mouse embryonic 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, 2010
27. Investigation of relation between COX5B gene expression and multiple sclerosis disease, thesis By jamshid motaei for M.sc Degree in Molecular and Cellular Biology, Ministry of science, research and Technology National Institute of Genetic Engineering and Biotechnology, Tehran, Iran, 2012
28. The measurement of gene expression for the Th1/Th2 associated cytokines and transcription factors in patients 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, 2012
29. Investigation of relation between Ndufv2 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 2012.
30. Investigation of relationship between ATP5B 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, 2011
31. 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, 2010
- 32- 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, 2012
- 33- The measurement of gene expression for the Th1-Th2 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, 2011
- 34- Investigation of relationship between NDUFS8 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, 2011
- 35- 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, 2012

- 36- 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, 2012
- 37- Effect of miR-375 expression in Pancreatic Islet development of human induced Pluripotency stem cells, thesis By Rehanah Lahmy for PhD degree in Genetics, T.M.U University, Tehran, Iran, 2013
- 38- 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, 2012.
- 39- 39- Molecular identification of the most prevalent mutation of glucose 6-phosphat dehydrogenase (G6PD) gene in deficient patient in state of Gilan, thesis By Zahra Hajebrahimi for M.Sc Degree in Genetics, T.M.U, Tehran,Iran, 2003
40. 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, 2012.
41. 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, 2013.
42. 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
43. 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, 2013.
44. Mutation Detection of Spinal Muscular Atrophy by a Colorimetric Method which uses Gold Nanoparticles. thesis By Hossein Ahmadpuor- Yazdi for PhD Degree of Nanomedicine, Shahid Beheshti University, Tehran, Iran, 2014.
- 45- Genetic Linkage analysis of 8 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 Reisi for PhD Degree of molecular Genetic, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, 2014
- 46- Investigation of CCR5 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 Institute of higher education, Esfahan, Iran, 2014

47- The measurement of gene expression for the Th1/Th2 associated transcription factors in patients with Alopecia Areata. thesis By Soha Sadeghi for M.Sc Degree in Molecular and Cellular Biology biology, Nour Danesh Institute of higher education, Esfahan, Iran, 2014

48- Identification of the promoter and exon2 mutations in CDH1 gene in Iranian patients with gastric cancer. thesis By Fatemeh Shabani for M.Sc Degree in Molecular and Cellular Biology biologi, Nour Danesh Institute of higher education, Esfahan, Iran, 2014

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Thesis: as Co- Supervisor

1. 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, 2001.

2. 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, 2002.

3. Biochemical Diagnosis and Determination of Q188R, K285N, L195P, X380R and Q169K Mutations in Galactosemic Patients, Thesis By N. Naghibzadeh for MS.c Degree in Human Genetic, Research and Science Unit, Azad university, Tehran, Iran, 2003.

4. 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, 2000.

5. 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, 2003.

6. 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, 1998.

7. Study of G6PD 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, 2003.

8. 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, 2003.

9. Identification of Molecular Mutations of G6PD 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, 2001.

10. Study of G6PD 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, 2003.
11. Analysis of Four Locus (DaT1, D1S80, D17S5 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, 2005.
12. Study of Four Microsatellite Markers (DYS19, DYS388, DYS390 and DYS391) 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, 2005.
13. Study of Four Markers (D19S20, ApoB, D17S5 and D1S80) 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, 2005.
14. Study of Four Y-STR Markers (DYS392, DYS393, DYS391 and DYS389II) 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, 2005.
15. 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, 2005.
16. Study of Four Mutations W1282X, G551D, G542X, DeltaF508 and N1303K 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, 2005.
17. 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, 2005.
18. 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, 2008.
19. Cloning, expression and evaluation of plasmodium vivax and P. Falciparum region of Merozoite Surface Protein 1 in animal model, thesis By Akram Abouie Mehrizi for PhD Degree in Molecular Genetics, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran, 2010.
20. Determination of frequency mutations in the first half of exon 2 of CYP1B1 gene among 60 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, 2006.
21. Identifying the entrepreneurial opportunities in food biotechnology industry in Iran, thesis By Hadei Sanati for M.Sc Degree in entrepreneurial, Tehran University, Tehran, Iran, 2013.

22. Study of ATBF1 genetic alteration among Iranian gastric cancer patients, thesis By Fatemeh Norouzi for M.Sc Degree in Biochemistry, Tehran University, Tehran, Iran, 2013.

23. 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, 2013.

24. 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, 2013.

Publications

a. Published books written in Farsi language Except for No. 7 which is in both Farsi and English and No. 8 which is in English.

1. Genetic and You, General Information in Genetic, **M.H. Sanati**, Ali Reza Mowjoodi and Sakineh Abbasi, 1998.
2. Genetic Engineering, Technology for manipulation of Living Organisms, **M.H. Sanati**, M. Khazab, C. Azeempoor, In Farsi, 2000.
3. International Biosafety Protocol, Translation of Cartagena Protocol to Farsi, **M.H. Sanati** and Colleagues, 2001.
4. Biotechnology, a solution to solve mankind problems during the 21th century, **M.H. Snati** and N. Ismailzadeh, 2001.
5. Biosafety Guidlines, In Farsi, **M.H. Sanati** and Colleagues, 2001.
6. Bioethics and Biotechnology, **M.H. Sanati** and Colleagues, 2002.
7. 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, 2006.
8. Understanding Bioethics, **M.H. Sanati** and Colleagues, 2005.
9. Editor in Chief and co-authors for the "Encyclopedia of Biotechnology and Genetics, 2009.

b. Selected Abstract presented in different scientific congress:

1. 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, 7-8 May 2002 Tehran, Iran.
2. 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, 7-8 May, 2002, Tehran, IRAN
3. 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 7-8 May 2002, Tehran, Iran.

4. Absence of Mitochondrial DNA Intergenic COII/ t RNA Lys 9 bp Deletion within a sample of Iranian Populations, Alemohamad S., Rahmani M, Houshmand M., Farhoud D, S., Sanati M.H, Human Genome Diversity In Islamic Countries Seminar, 7-8 May 2002, Tehran, Iran.

5. Introduction of Patients Cell Bank in National Research Center for Genetic Engineering and Biotechnology, M. M. Banoei, F. Hormozian, F. Mirzajaani, M. Houshmand, M.H. Sanati, Human Genome Diversity In Islamic Countries, 7-8 May 2002, Tehran, Iran.

6. Relation Between LHON primary Point Mutations and MS, Sanati M.H., Sharifpanah F., Houshmand M., Rashedi F, Asghari R.E., Lotfi J, Human Genome Diversity In Islamic Countries Seminar, 7-8 May 2002, Tehran, Iran.

7. Molecular Analysis of Iranian Patients with Huntington's Disease, F. Hormozian , M. Houshmand, R. Ghiasvand, M.H Sanati, Human Genome Diversity in Islamic Countries, 7-8 May 2002, Tehran, Iran.

8. Genetic Counseling Report (one Year Experiences) , Joughedoust S., Shafeghati Y., Molavi M., Sobouti S., Babamohamadi G.H.R. ,Zolfaghari N., Houshmand M. and Sanati M.H., Human Genome Diversity In Islamic Countries, 7-8 May 2002, Tehran, Iran.

9. Detection of Mitochondrial Mutation in Iranian Deaf Families., Salehi Tabar R., Sanati M.H., Mowjoodi A., Elahi E. and Houshmand M., Human Genome Diversity In Islamic Countries, 7-8 May 2002, Tehran, Iran.

10. Distribution of 9bp Deletion between the Lys tRNA and COII region of mtDNA in Iranian populations., Alemohammad SA, Rahmani M., Houshmand S.M., Sanati M.H., Farhud D., Euromit ,^o Venice, Italy, 19-23 sep. 2001., Mitochondrion (The official Journal of the Mitochondrial Research Society), Vol.1, Suppl.1 sep. 2001, ISN 1567-7249

11. Detection of Mitochondrial Mutation in Iranian Deaf Family., Salehi Tabar R., Sanati M.H., Mowjoodi A, Sokhansanj A., Elahi E., Houshmand M., Euromit 5, Venice , Italy, 19-23 Sep. 2001., Mitochondrion (the official Journal of the Mitochondrial Research Society), Vol. 1, Suppl. 1, Sep.2001, ISSN 1567-7249.

12. Relationship between LHON primary point Mutations and MS. , Sanati M.H., Sharifpanah F., Houshmand M. Euromit 5, Venice, Italy, 19-23 sep.2001. Mitochondrion (The official Journal of The Mitochondrial Research Society), vol.1,SUPPL.1, Sep. 2001, ISSN 1567-7249.

13. Investigations of Proliferation Response of Multiple Sclerosis patients' Lymphocytes against Borrelia Antigens., Rahmani M., Moazzeni S.M., Sanati M.H, Euromit 5, Venice, Italy, 19-23 sep.2001. Mitochondrion (the official Journal of the Mitochondrial Research Society), Vol. 1, SUPPL. 1 ,Sep. 2001, ISSN 1567-7249.

14. Three Major G6PD-Deficient Polymorphic Variants Identified in the Mazandaran State of Iran., S.A. Mesbah Namin, M.H. Sanati, A. Mowjoodi, T.J. Voliamy and M.R.Noori-Dalooi, 9th APCCB, 28th Annual Conference of ACBI, 9-14 March 2002, NewDelhi, India
15. Haplotype Analysis of related ATM Markers Facilitate prenatal Diagnosis in Iranian Ataxia Telangiectasia Patients., B. Bayat, M.H. Sanati, A. Aleyasin, A. Farhoudi, M. Moin, A. Isaian., European Human Genetics Conference , 25-28 May 2002, Strasbourg, France., European Journal of Human Genetics, Vol. 10, Suppl. 1. May 2002.
- 16- Introducing of Iranian Patients Cell Bank in the National Research center for Genetic Engineering and Biotechnology (NRCGEB), M.M. Banoei, F.Hourmozian, M. Houshmand, M.H. Sanati, European Human Genetics Conference, 25-28 May 2002 Strasbourg, France. European Journal of Human Genetics, Vol.10, Suppl.1, May 2002,
17. Investigation of LHON Primary point Mutations in Iranian MS Patients. H. Houshmand, E. Sharifpanah, M. Sanati, A. Tabasi, Y. shafeghati. European Journal of Human Genetics, Vol. 10, Suppl. 1, May 2002. 25-29 May 2002 , strasbourg, France.
18. Molecular Analysis of Iranian Patients with Huntington's Disease. F. Hormozian, M. Houshmand, R. Ghiasvand, M. Sanati, 10th International Congress of Human Genetics, May 15-19, 2001, Vienna, Austria. European Journal of Human Genetics vol. 9, Suppl. 1, May 2001.
19. First Report on Molecular Identification of Anopheles Pulcherrimus by using rDNA - ITS2 Region , Navid Dinparast jadid, S. Zeinali, M.H. Sanati, M. Zare, A. Hassan zehi
20. Identification of p53 genotype among Iranian Ataxiatelangiectasia (A-T) Patients, Behnaz Bayat, Firouzeh Biramijamal, Mohammad Hossein Sanati, Mohammad mehdi Banoei
21. Studying the Production of Human Growth Hormone under T7/LacRegulatory System in Escherichia Coli., Alireza Zomorodipour , Abdolkhalegh Deezaji, & Mohammad Hossein Sanati , Medical Biotechnology Congress, 20-25 Oct. 2002, Japan.
- 24- Progress in Multiple Sclerosis Research, 16-19 Sep 1995 Canberra, Australia. the FAOBMB congress, 24-29 Sep 1995, Sydney, Australia.
25. Combined Biological Science Meeting, 4th Aug 1995, University of Western Australia, Perth, Australia.
26. International Symposia on Myelin and Myelin Forming Cells, 1995, Okazaki, Japan.
27. Progress in Multiple Sclerosis Research, 1994, Canberra, Australia .53. 16th International Congress of Biochemistry and Molecular Biology, New Delhi, 1994.
28. Second Asian Pacific Society for Neurochemistry (APSN) Meeting, Hyderabad, India, 1994.

29. Combined Biological Science Meeting, 19th Aug 1995, University of Western Australia, Perth.
30. Gordon Conference on Myelin, 13-18 Mar 1994, California, USA.
31. "Determination of normal level of biochemical factors in infants sera in south of Iran", Sanati M.H., Biochemistry Meeting, Tarbiat Modarres University, Tehran, Iran.
32. "Production of antibody against the organophosphorous compounds", M. H. Sanati, Z. M. Hassan and M. Taghikhani, 9th Iranian Congress of Physiology and Pharmacology, University of Shahid Beheshti, Tehran, Iran, 1989.
33. "Hapten-Protein Conjugation", Sanati M.H. and Hassan Z. M., First Iranian congress of immunology and allergy in Tehran University, Tehran, Iran, 1988.
34. Detection the most Prevalent mutations in G6PD gene in Gilan and Golestan Provinces of Iran, Noori Dalooii M.R., Najafi L., Hajebrahimi Z., Mohammad Ganji and Sanati M.H., 2nd Iranian congress of Genetic Disorders & Disabilities, December 2002, Tehran, Iran
35. Investigation of mtDNA haplogroups and disease (Report from Iran) Houshmand M., Sharifpanah F., Alemohamad A., Rahmani M., Joughedost S., Babrzadeh F., Vakilian M., Sanati M.H., 2nd Iranian Congress of Genetic Disorders & C Disabilities, December 2002, Tehran, Iran.
36. Detection of mutation In Iranian deaf families., Salehi tabar R., Sanati M.H., Elahi E., Houshmand M., 2nd Iranian Congress of Genetic Disorders & C Disabilities, December 2002, Tehran, Iran
37. Biochemical and Molecular Diagnosis of Galactosemia, Naghibzadeh Tabatabaee N., Houshmand M., Zare sh., Talachian Z., Majd I., Sanati M.H., Mirzajani F., 2nd Iranian congress of Genetic Disorders and Disabilities December 2002, Tehran, Iran
- 38- Cloning and expression of human gamma- interferon cDNA in Ecoli., Fatemeh Alasti and M.H. Sanati (2003) third national congress of biotechnology, Mashhad, Iran.
- 39- The molecular biology aspects of recessive hearing loss in Iranian population, Fatemeh Alasti and M.H. Sanati, (2003) 8th Iranian Genetics Congress, Tehran, Iran.
- 40- Polymorphisms of Apolipoprotein E: Association with Susceptibility and Severity of Multiple Sclerosis., V. Hadavi, D.D. Farhud, M.H. Sanati, M. Houshmand, S.M. Nabavi, M. Seyedian, M. Younesian (2004) The American Society of Human Genetics 54th Annual Meeting
- 41- P53 Polymorphism in Iranian Population with Four Different Ethnicity and incidence Pattern of Esophageal Cancer. S. Tanhaei, F. Biramijamal, M. H. Sanati, M. Sheidai. The 3rd Regional Conference of Asian Pacific Organization for Cancer Prevention (APOCP) GI Cancer Control. April 2005. Zibakenar, Rasht, Iran.

42-Is Genetic Polymorphism at GST-P1 Locus Associate With Type of P53 Gene Mutation in Esophageal Squamous Cell Carcinoma from Iran?

F.Biramijamal, M.H.Sanati, G.Iravanloo, N. Saligheh Araghi, S.Tanhaei, R.Sharifi, A.Allameh, The 3rd Regional Conference of Asian Pacific Organization for Cancer Prevention (APOCP) GI Cancer Control. April 2005. Zibakenar, Rasht, Iran.

43-Investigation of P53 Polymorphisms among Iranian Esophageal Squamous Cell Carcinoma from to find its role in Developing cancer.

N. Saligheh Araghi, F.Biramijamal, M.H.Sanati, G.Iravanloo, S.Tanhaei, B. Bayat, M.M Banoei. The 3rd Regional Conference of Asian Pacific Organization for Cancer Prevention (APOCP) GI Cancer Control. April 2005. Zibakenar, Rasht, Iran.

44-Structure Study of human growth hormone: A thermodynamic and spectroscopic Approach", M.S. Atri, M. Rezaei- tavirani, M. H. Sanati, A.A. Saboury and A. A. Moosavi- Movahed, 49th Annual Meeting of Biophysical Society, Long Beach, California, USA (12- 16 Feb.2005).

45- Thermodynamics of binding some metal ions on human growth hormone

A.A. Saboury, M.S. Atri, M. Kordbacheh, H. Ghourchaei and M.H. Sanati, 30th FEBS Conference & 9th IUBMB Conference, Budapest, Hungary(2-7 July 2005)

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