Curriculum Vitae

Kolsoum Saeidi, MD-Ph.D.

Assistant Professor, Department of Medical Genetics,
Kerman University of Medical Sciences (KUMS), Kerman, Iran

1. General Information

Name: Kolsoum
Surname: Saeidi
Marital state: Married
Nationality: Iranian

2. Language proficiency

- Persian (native)
- English (good)
- Italian (good)
- Dutch (basic)

3. Contact

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4. Educations and Training

I. PhD in Medical Genetics, Pavia University, Italy (2008-2012).

Thesis: Glycogen Storage Disease Type II: Analysis of Genetic Polymorphisms Able to Modulate the Clinical Expression.

II. Genetic Consultation

a. Genetic consult training at San Matteo hospital, Pavia, Italy. (2008-2011)

III. Doctor of Medicine, Kerman University of Medical Sciences, Kerman, Iran (2000-2008):

Thesis: Comparative Study of Nucleated Red Blood Cells in Infants of Active and Passive Smoking and Nonsmoking Mothers.
Supervisor: Dr. Z. Kamyabi

4. Research projects and laboratory works

4.1 Study of single nucleotide polymorphism (SNP) in the promoter region of matrix metalloproteinase-1 (MMP-1) in Head and Neck Squamous Cell Carcinoma (HNSCC). 2008-2012, Pavia University, Italy.

4.2 Investigation of mutations in glycogen storage disease type II (Pompe disease), 2008- 2012, Pavia University, Italy.

4.3 Investigation of the relation of Pompe disease with some polymorphisms in ACE, ACTN3, PPAR?, GYS1 and AGT genes, as well, 2008-2012, Pavia University, Italy.

4.4 Experiments and data analysis of real-time polymerase chain reaction (qPCR) in patients with Melanoma cancer, Radboud University Medical Centre, 2012, Nijmegen, The Netherlands.

4.5 Experiments and data analysis of ChIP-sequencing in patients with mixed lineage leukemia (MLL), Radboud University Medical Centre, 2012, Nijmegen, The Netherlands.

4.6 Investigation of Jak2 V617F mutation in patients with myeloproliferative neoplasms, Laboratory of Stem cells, Kerman University of Medical Sciences, 2013-Now, Kerman, Iran.

4.7 Investigation of genetic causes of mental retardation in patients referred to the welfare organization with University of Exeter 2015- Now, Kerman, Iran.

4.8 Investigation of genetic causes of hearing loss in collaboration with the welfare organization and Miami University, 2015-Now, Kerman, Iran.

4.9 Investigation of Neuropeptide Y receptor polymorphisms with Alzheimer Disease in collaboration with Neurologic Research Center, Kerman University of Medical Sciences, 2015- Now, Kerman, Iran

4.10 Investigating the effects of Doxorubicin chemotherapy drug in comparison with Kaempferol as a plant-derived flavonoid on breast cancer stem cell, Kerman University of Medical Sciences, 2017- Now, Kerman, Iran

4.11 Investigation of genetic variants in patients with coronary artery disease, Kerman University of Medical Sciences, 2017- Now, Kerman, Iran

4.12 Training in Next-Generation Sequencing Data Analysis, 2016- 2017, VU University Amsterdam, The Netherlands

4.13 Investigation of DNA methylation in coronary heart disease, 2017-2018.

5. Publications & Conferences

1. **K. Saeidi**, P. De Filippi, S. Ravaglia, A. Dardis, C. Angelini, T. Mongini, L. Morandi, M. Moggio, A. Di Muzio, M. Filosto, B. Bembi, F. Giannini, G. Marrosu, M. Rigoldi, P. Tonin, S. Servidei, G. Siciliano, A. Carlucci, C. Scotti, M. Comelli, A. Toscano and C. Danesino "Genotype- Phenotype correlation in Pompe disease, a step forward", Orphanet Journal of Rare Diseases, 2014; 8;9:102.

2. Amiri H, **Saeidi K**, Borhani P, Manafirad A, Ghavami M, Zerbi V., "Alzheimer's Disease: Pathophysiology and Applications of Magnetic Nanoparticles as MRI Theranostic Agents", ACS Chem Neurosci. 2013; 20;4(11):1417-29.

3. Bhaskar S, **Saeidi K**, Borhani P, Amiri H. "Recent progress in migraine pathophysiology: role of cortical spreading depression and magnetic resonance imaging", Eur J. Neuroscience. 2013; 38(11):3540-51.

4. S. Ravaglia, P. DeFilippi, A. Pichiecchio, M. Ponzio, **K. Saeidi Garaghani**, G. U. Poloni, P. Bini, C. Danesino, "Can genes influencing muscle function affect the therapeutic response to enzyme replacement therapy (ERT) in late-onset Type II Glycogenosis?", Molecular Genetics and Metabolism, 2012, 107 (1-2), 104–110.

5. S. Ravaglia, P. Bini, **K. Saeidi Garaghani**, C. Danesino, "Ptosis in Pompe disease: common genetic background in infantile and adult series", Journal of neuro-ophthalmology, 2010;30(4):389-90.

6. S. Ravaglia, A. Pichiecchio, M. Ponzio, C. Danesino; **K. Saeidi Garaghani**; G. U. Poloni, A Toscano, A. Moglia, A. Carlucci, P. Bini, M. Ceroni, and S. Bastianello, "Changes in skeletal muscle qualities during enzyme replacement therapy in late-onset

type II glycogenosis: temporal and spatial pattern of mass vs. strength response", Journal of inherited metabolic disease, 2010;33(6):737-45.

7. **K. Saeidi** and Cesare Danesino, "Analysis of Genetic Polymorphisms Relevant for Muscle Structure and Function in a Group of Patients Affected with Glycogen Storage Disease Type II", XIII National Congress of Italian Society of Human Genetics (SIGU), 14-17 Sep 2010, Florence, Italy.

8. **Saeidi K. "**Myeloproliferative neoplasms: Current molecular biology and genetics ". Critical Reviews in Oncology and Hematology, 2016;98: 375–389

9. **K. saeidi**, N. Saleh-Gohari, A. Mansouri A novel splice site mutation of the ATM gene associated with ataxia telangiectasia. accepted

10. N. Saleh-Gohari, **K.Saeidi**, S. Ziaadini-Dashtkhaki. Haplotype analysis in carriers of β-globin gene mutation facilitates genetic counseling in β-thalassemia: A cross-sectional study in Kerman province, Iran. Submitted

11. Saleh-Gohari N, **Saeidi K**, Zeighaminejad R. "A novel homozygous frameshift mutation in the FUCA1 gene causes both severe and mild fucosidosis**"**. Journal of clinical pathology, 2018 Mar 27.

12. Sara Soltanian, Helia Riahirad, Athareh Pabarja, Mohammad Reza Karimzadeh, **Saeidi K**. **"**Kaempferol and Docetaxel decrease the proportion of side population cells and expression of cancer stem cell markers in MCF-7 breast cancer cells**"**. Submitted

13. Shang H, Yan D, Tayebi N, **Saeidi K**, Sahebalzamani A, Feng Y, Blanton S, Liu X. "Targeted Next-Generation Sequencing of a Deafness Gene Panel (MiamiOtoGenes) Analysis in Families Unsuitable for Linkage Analysis". Biomed Res Int. 2018 Jan 15;2018

14. Screening consanguineous families for hearing loss using the MiamiOtoGenes panel Abhiraami k., Denise Y., **Saeidi K**. et al. submitted.

15. Another piece of APOE geographical distribution puzzle of Alzheimer emphasizing on the better function of Multiplex ARMS PCR compare with HRM. Poursheikhali P., **Saeidi K**. et al. Submitted

16. Evaluation of SIRT1 promoter methylation in patient with coronary artery disease. Hashemi F., Saleh-Gohari N., **Saeidi K**. Submitted

17. various strategies to improve efficacy of stem cell transplantation in multiple sclerosis: focus on mesenchymal stem cells and neuroprotection. Yousefi F. Lavi Arab f. **Saeidi K**. et al. Journal of Neuroimmunol. 2019 Mar. 19

6. Workshops

1. FISH (fluorescence in situ hybridization), 2013, Yazd, Iran
2. Genetics Consultation, 2013, Sarem Hospital, Tehran, Iran
3. Genetics Consultation, 2013, Isfahan University of Medical Science, Isfahan, Iran
4. Rendu-Osler-Weber (HHT) disease, June 11, 2010, Pavia, Italy.
5. Infant Diseases, Infant Nutrition and Infant Revival, 2007, Kerman University of Medical Sciences, Kerman, Iran.
6. Family Doctor, 2007, Kerman Health Center, Kerman, Iran.
7. Production of Blood Products, 2008, Tehran, Iran.
8. International Iranian Neurogenetic Congress, 2013, Yazad, Iran
9. Genetics and neuromuscular disease, 2015, Kerman, Iran.
10. Congress of Prenatal diagnosis, 2014, Kerman, Iran.
11. International Workshop on Cancer Genetic & Cytogenetic Diagnostics, 2014, Nijmegen, The Netherlands.
12. Next generation sequencing data analysis, 2014, Leiden, The Netherlands.
13. Winter school of Myology, 2016, Kerman, Iran.
14. Next generation sequencing data analysis, 2017, Kerman, Iran.
15. International Iranian Neurogenetic Congress, 2018, Mashhad, Iran.
16. Microarray data analysis workshop, 2018, Kerman, Iran.

8. Current Positions Held:

Assistant Professor, Department of Medical Genetics, Kerman University of Medical Sciences (KUMS), Kerman, Iran
Medical Geneticist, Besat Genetics Laboratory, Kerman University of Medical sciences (KUMS), Kerman, Iran

Genetic counselor, Besat Outpatient Department, Kerman University of Medical Sciences (KUMS), Kerman, Iran

9. Teaching:

- Medical Genetics Department

Medical Genetics Master's Program

- School of Medicine

Medical Genetics Course

- School of Dentistry

Medical Genetics Course

- School of Health Paramedical

Biology Biology Course

- School of Nursing and Midwife

Genetics Consultation Course

- School of public Health

Medical Genetics course

- Virology Department

Molecular Biology Course

8. Fields of Interest

Clinical Genetics, Molecular Genetics, Cytogenetics, Genetics Consultation.