In the Name of God

Curriculum vitae

Maryam Abiri-PhD

Last Update: 2018-1۲-۲۱

Personal data

Name: Abiri Maryam
Profession: PHD of medical genetic
Nationality: Iranian
Date of birth: 1983
Place of Birth: Tehran/Iran
Language: Persian /English
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Academic rank

Assistant professor — Department of medical genetics and molecular biology, Faculty of Medicine, Iran University of Medical Sciences (2017 – now)

Education

Ph.D	Department of Medical Genetics, Faculty of Medicine, Tehran University of Medical Sciences	2010-2016
MSc	Department of Medical Genetics, Faculty of Medicine, Tehran University of Medical Sciences	2005-2008
BSc	Department of Biology, Faculty of Science, Alzahra University	2001-2005

Dissertations

Ph.D Thesis: Genetic anlysis of patients with metabolic disease maple syrup urine disease with the help of STR markers

- Supervised by: Dr. Sirus Zeinali, Dr. Mohammad reza Noori-Daloii
- Advised by: Dr. Morteza Karimipoor, Dr.Aria Setoodeh

MSc Thesis: Investigating association of MGP gene variations G-7A & T-138C with coronary artery disease

Supervised by: Dr. Mohammad Keramatipour,
Advised by: Prof Parvin Mehdipour, Dr.Saeed Sadeghian

Publications:

Molecular genetics of a cohort of 635 cases of phenylketonuria in a consanguineous population. Shirzad T, Saeidian AH, Bagherian H, Salehpour S, Setoodeh A, Alaei MR, Youssefian L, Samavat A, Touati A, Fallah MS, Vahidnezhad H, Karimipoor M, Azadmehr S, Raeisi M, Bendehi Sarhadi A, Zafarghandi Motlagh F, Jamali M, Zeinali Z, **Abiri M**, Zeinali S; J Inherit Metab Dis. 2018 Aug 29. doi: 10.1007/s10545-018-0228-6. [Epub ahead of print] PMID: 30159852

Autozygosity mapping of methylmalonic acidemia associated genes by short tandem repeat markers facilitates the identification of five novel mutations in an Iranian patient cohort.
Shafaat M, Alaee MR, Rahmanifar A, Setoodeh A, Razzaghy-Azar M, Bagherian H, Bagheri SD, Zafarghandi Motlagh F, Hashemi M, **Abiri M**, Zeinali S. Metab Brain Dis. 2018 Jul 18. doi: 10.1007/s11011-018-0277-4. PMID: 30022420

Genome-wide single nucleotide polymorphism-based autozygosity mapping facilitates identification of mutations in consanguineous families with epidermolysis bullosa. Vahidnezhad H, Youssefian L, Saeidian AH, Zeinali S, Touati A, **Abiri M**, Sotoudeh S, Norouz-Zadeh S, Amirinezhad N, Mozafari N, Daneshpazhooh M, Mahmoudi H, Hamid M, Bradfield JP, Kim CE, Hakonarson H, Uitto J. Exp Dermatol. 2018 Jan 24. doi: 10.1111/exd.13501. PMID: 29364557

Development and implementation of a novel panel consisting 20 markers for the detection of genetic causes of male infertility. Bahrami Zadegan S, Dabbagh Bagheri S, Joudaki A, Samiee Aref MH, Saeidian AH, Abiri M, Zeinali S. Andrologia. 2017 Dec 28. doi: 10.1111/and.12946. PMID: 29282760

Recessive mutation in tetraspanin CD151 causes Kindler syndrome-like epidermolysis bullosa with multi-systemic manifestations including nephropathy. Vahidnezhad H, Youssefian L, Saeidian AH, Mahmoudi H, Touati A, **Abiri M**, Kajbafzadeh AM, Aristodemou S, Liu L, McGrath JA, Ertel A, Londin E, Kariminejad A, Zeinali S, Fortina P, Uitto J. Matrix Biol. 2018 Mar;66:22-33. doi: 10.1016/j.matbio.2017.11.003. Epub 2017 Nov 11. PMID: 29138120

Multigene Next-Generation Sequencing Panel Identifies Pathogenic Variants in Patients with Unknown Subtype of Epidermolysis Bullosa: Subclassification with Prognostic Implications. Vahidnezhad H, Youssefian L, Saeidian AH, Touati A, Sotoudeh S, **Abiri M**, Barzegar M, Aghazadeh N, Mahmoudi H, Norouz-Zadeh S, Hamid M, Zahabiyon M, Bagherian H, Zeinali S, Fortina P, Uitto J.
J Invest Dermatol. 2017 Dec;137(12):2649-2652. doi: 10.1016/j.jid.2017.07.830. Epub 2017 Aug 19.

Vahidnezhad H, Youssefian L, Zeinali S, Saeidian AH, Sotudeh S, Mozafari N, **Abiri M**, Kajbafzadeh A, Barzegar M, Ertel A, Fortina P, Uitto J. Dystrophic Epidermolysis Bullosa: COL7A1 Mutation Landscape in a Multi-Ethnic Cohort of 152 Extended Families with High Degree of Customary Consanguineous Marriages. J Invest Dermatol. 2016 Oct 27. pii: S0022-202X(16)32607-0.

Vahidnezhad H, Youssefian L, Saeidian AH, Zeinali S, Mansouri P, Sotoudeh S, Barzegar M, Mohammadi-Asl J, Karamzadeh R, **Abiri M**, McCormick K, Fortina P, Uitto J.Gene Targeted Next Generation Sequencing Identifies PNPLA1 Mutations in Patients with a Phenotypic Spectrum of Autosomal Recessive Congenital Ichthyosis: The Impact of Consanguinity. J Invest Dermatol. 2016 Nov 21. pii: S0022-202X(16)32653-7.

Abiri M, Talebi S, Uitto J, Youssefian L, Vahidnezhad H, Shirzad T, Salehpour S, Zeinali S. Co-existence of phenylketonuria either with maple syrup urine disease or Sandhoff disease in two patients from Iran: emphasizing the role of consanguinity. J Pediatr Endocrinol Metab. 2016 Oct 1;29(10):1215-1219.

Abiri M, Karamzadeh R, Mojbafan M, Alaei MR, Jodaki A, Safi M, Kianfar S, Bandehi Sarhaddi A, Noori-Daloii MR, Karimipoor M, Zeinali S. In silico analysis of novel mutations in maple syrup urine disease patients from Iran. Metab Brain Dis. 2016 Aug 10. [Epub ahead of print]

Mojbafan M, Tonekaboni SH, **Abiri M**, Kianfar S, Sarhadi A, Nilipour Y, Tavakkoly-Bazzaz J, Zeinali S. Linkage Study Revealed Complex Haplotypes in a Multifamily due to Different Mutations in CAPN3 Gene in an Iranian Ethnic Group. J Mol Neurosci. 2016 Jul;59(3):392-6.

Youssefian L, Vahidnezhad H, Aghighi Y, Ziaee V, Zeinali S, **Abiri M**, Uitto J. Hyaline Fibromatosis Syndrome: A Novel Mutation and Recurrent Founder Mutation in the CMG2/ANTXR2 Gene. Acta Derm Venereol. 2016 May 13. [Epub ahead of print]

Abiri M, Karamzadeh R, Karimipoor M, Ghadami S, Alaei MR, Bagheri SD, Bagherian H, Setoodeh A, Noori-Daloii MR, Sirous Zeinali. Identification of six novel mutations in Iranian patients with maple syrup urine disease and their in silico analysis.

Mutat Res. 2016 Apr;786:34-40

Ghadami S, **Abiri M**, Farideh ZR Javad Tavakkoly Bazzaz, Zeinali S. Multiplex PCR Analysis of 17 (11 Novels) STR Markers Linked to Six Autosomal Recessive Intellectual Disability Genes in Iranian Population. Clin Lab. 2016;62(1-2):31-8

Foroozani H, **Abiri M**, Salehpour S, Bagherian H, Sharifi Z, Alaei MR, Khatami S, Azadmeh S, Setoodeh A, Rejali L, Rohani F, Zeinali S. Molecular Characterization of QDPR Gene in Iranian Families with BH4 Deficiency: Reporting Novel and Recurrent Mutations. JIMD Rep. 2015; 21:123-8.

Amiri P, Tavakkoly Bazzaz J, Charmchi E, Hafeziyeh J, Keramatipour M, **Abiri M**, Hasani Ranjbar S, Larijani B, M.Amoli M. Replication of TCF7L2 rs7903146 association with type 2 diabetes in an Iranian population. Genet Mol Biol. 2010 Jul;33(3):449-51

Abiri M, Sadeghian S, Hakki M, Boromand M.A, Mehdipour P, Izadi M and Keramatipour M. NO association of MGP gene variations G-7A & T-138C with coronary artery disease in Iranian patient.2009, *Tehran University Medical Journal (in Persian)*

Izadi M, **Abiri M**, Keramatipour M. Production of a GFP/Neomycin Expression Vector, Avicenna J Med Biotechnol. 2009 Apr;1(1):33-6

Poster presentations:

- Developing a vector-based method for down regulation of GFP expression in HeLa cells by RNAi. 10th Genetic Congress of Iran
- Identification and functional analysis of MGP gene variations associated with coronary artery disease and their functional analysis. 10th Genetic Congress of Iran
- Gene therapy, Advantages and disadvantages. 9th Genetic Congress of Iran
- Novel mutation in BCKDHA gene in Iranian population. ESHG 2014
- Genetic investigation of Maple Syrup Urine .in Iranian population. ESHG 2015

- Identification of six novel mutations in BCKDHA gene for classic form of maple syrup urine disease in Iranian patients and their in silico analysis

Research interests:

- NGS based
- Bioinformatics
- Linkage & association studies in complex disorders
- Genetics of mendelian disorders

Presentation:

- 2003, Microbial weapon. 1th congress of biology and biotechnology, Mazandaran University

Techniques:

- DNA and RNA extraction, Lymphocyte isolation,
- Primer design, PCR, RFLP, Multiplex PCR design, QF-PCR,….
- Cloning
- PAGE,
- capillary electrophoresis

Other abilities:

- Work with computer soft wares such as Microsoft office (Word, PowerPoint,..),
- Statistical software (SPSS),
- End note
- Genetics' software
- Writing and handling research projects
- Scientific writing
- Linkage and association studies

Other experiences:

Work in Dr. Zeinali's medical genetics laboratory for 4 years

Work in Metabolic Disorders Research Center, Endocrinology and Metabolism Molecular-Cellular Sciences Institute of shariati hospital