CURRICULUM VITAE

Fahimeh Piryaei

Personal information

Assistant Professor of Medical Genetics

Present address	Department of Molecular Medicine and Human Genetics, School of Medical Sciences, Hamadan University of Medical Sciences, Hamadan, Iran
Email	f.piryaei@gmail.com, f.piryaei@umsha.ac.ir
Nationality	Iranian

Language

English, Persian

Academic Background

Year	**Institute**	**Major**
2013-Jan 2019	Tarbiat Modares University Doctor of Philosophy Student	**Medical Genetics** **Supervisor:** Prof. Hossein Mozdarani **Advisor:** Prof. Mohammadali Sadighi Gilani, Dr. Mansour Ebrahimi
2009-2011	National Institute of Genetic Engineering and Biotechnology (NIGEB) Master of Science	**Cellular and Molecular Biology** **Supervisor:** Dr. Zahra-Soheila Soheili **Advisor:** Dr. Masoud Houshmand
2005-2009	Shahed University Bachelor of Science	**Biotechnology (Industry)**

Published articles

1. Association of the Mitochondrial ATPase 6/8 and $tRNA_{Lys}$ Genes Mutations with Autism in Iranian Patients. Yakhteh. 2012; 14(2):98-101
2. The effect of age and strain on screening, proliferation, and differentiation of chicken bone marrow mesenchymal stem cells. Arak Medical University Journal (AMUJ) 2011; 14(55): 18-28.
3. Hsa-miR-187 expression is dysregulated in testis of non-obstructive azoospermic men. 2018. Accepted in International Journal of Basic Science in Medicine

Abstracts and Conference Presentations

1 . ESHG (European Society of Human Genetics), Nürnberg, Germany, 2012, Investigation of mitochondrial tRNAThr and tRNAPro genes mutations in autism. (poster presentation)
2. ESHG, Nürnberg, Germany, 2012, The effect of age and strain on screening, proliferation, and differentiation of chicken bone marrow mesenchymal stem cells (poster presentation)

3. ASHG (American Society of Human Genetics), San Francisco, 2012, Investigation of mitochondrial D-Loop variations in autism (poster presentation)
4. ASHG, San Francisco, 2012, Comparison of the differentiation potential of human mesenchymal stem cells and several animal species (poster presentation)
5. Royan International Twin Congress, Iran, 2018, Effect of RNAlater on RNA Integrity in the snap freezing of testis tissues

books

1. Genetics 3in1. 2013. Compilation in Persian. Nahr Press. Iran.
2. Human Genetics: from Molecules to Medicine. By Christian P. Schaff et al. 2011. Translation into Persian (with Abdolazim Sarli and Dr. Amir Mashayekhi, supervised and edited by Prof. Hossein Mozdarani). 2017. Baresh-e-Danesh Press. Iran.

3. Alphabetical list ofgenetic diseases. Editing and Compilation in Persian (with 34 other authors). Under press. Nahr Press. Iran

Laboratory skills

RNA extraction, DNA extraction, PCR, Real-Time PCR, Western blotting, Sequencing, RNA sequencing analysis, Epigeneic data analysis, Meta-analysis of high-throughput sequencing data, Computational systems biology, Flow cytometry,

QF-PCR, MLPA, Cell culture, Cytogenetics (Karyotype, CMA3, TUNEL), Genetics Engineering

Bioinformatics skills

Softwares, Websites and Database including Codoncode, Finch TV, CLUSTAL –X, Gene Runner, CLC Genomics, SCIENCEDIRECT, NCBI, UCSC, OMIM, DDBJ, EBI, Mutation Taster, Provean, PolyPhen-2, Phyre2, Genomatixs, Pathway Studio, Cytoscape

Awards

Rank 3 in PhD Entrance Exam in 2013

Workshop attendance

1. Quality Basics, Principles of Establishing a Quality Management System and Internal Assessment (Audit) in Diagnostic, Pathology, IVF (Infertility) and Medical Genetics Laboratories, 2018, Sarem Hospital, Tehran, Iran

2. Epigeneic Data Analysis (ChIP-seq & Genome-wide Methylation), 2017, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran

3. Computational systems biology: Network analysis, Gene ontology and Promoter analysis, 2017, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran

4. Meta-analysis of high-throughput sequencing data, 2017, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran

5. Health, Safety and Environment (HSE) in laboratory, 2014, Tarbiat Modares University, Tehran, Iran

Lectures

Stem cells and their applications, 05Jan2013, department of biology, ministry of education

Genetics Disorders, 01Nov2011, department of biology, ministry of education

Work Experience

Research co-worker in project entitled “Isolation, culture and differentiation of chicken bone marrow mesenchymal stem cells”, Islamic Azad University, 2009

Ongoing projects

1. Comparison of piRNAs expression profile in obstructive and nonobstructive azoospermia men by small RNA sequencing (working as a project designer and co-worker in Arak University of Medical Sciences)

2. Circular RNA expression profile in infertile men (working as a project designer and co-worker in Royan Institute)

3. Potential biomarkers in Polycystic Ovarian Syndrome