

FARNOUSH KIYANPOUR



EDUCATION

- **PhD student** of Systems Biomedicine (since 2021), Isfahan University of Medical Sciences, Isfahan, Iran
- **Master degree:** Medical Biotechnology (2019), Isfahan University of Medical Sciences, Isfahan, Iran, GPA: A (18.38 out of 20)
- English graduated of Iran Language Institute, Tehran, Iran (2017)
- **Bachelor degree:** Genetics (2014), Shahid Chamran University of Ahvaz, Ahvaz, Iran
- **Middle and high school:** National Organization for Development of Exceptional Talents (NODET) schools (2010), Ahvaz, Iran

EXPERIENCE

- **2015–2016**
Teacher assistant in PBL project (Teaching molecular biology to medical students) • Isfahan University of Medical Sciences, Isfahan, Iran
- **2016–2018**
Manager of Genetics and Molecular Biology Department weekly seminars • Isfahan University of Medical Sciences, Isfahan, Iran
- **2018–2020**
 - Being executive member of “stablishing P4 medicine roadmap” in Biotech Development Center (BioDC) at Science and Technology vice-presidency (Referee: Dr. Ali Najafi, PhD of Bioinformatics)
 - Teaching Cytoscape software as a freelancer tutor
 - Translating and editing Scientific texts as a freelancer
 - Taking the “systems biology online course” prepared by Dr. Mohiuddin Jafari, which is now available on FARADARS online platform.
 - Learning C++ and PYTHON programming - Tehran Institute of Technology, Tehran, Iran
 - Learning SQL - Tehran Institute of Technology, Tehran, Iran

ACCOMPLISHMENT

- M.Sc. thesis entitled “**assessment of mmu-mir-802-5p and its targets - Pten, Agtr2 - expression alteration in male dba mouse model samples of diabetic nephropathy in comparison with normal mouse**” (Grant number 396377)
- Executive member of the research project entitled “**Gene expression re-analysis of human kidney’s diabetic nephropathy to identify potential drug targets by using systems biology approaches**”, Student Research Committee, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran (Grant number 195173)



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- Associated member of the research project entitled “**Assessment of mmu-miR-802-5p and its targets -Hnf1b, Foxp1, Ddit4, Flot2, Kif4, and Map2k4- expression alteration in male DBA mouse model samples of diabetic nephropathy in comparison with normal mouse**”, Iran National Science Foundation, Iran (Grant number 96006608)
- **Kiyanpour F**, Abedi M, Gheisari Y. A systematic integrative approach reveals novel microRNAs in diabetic nephropathy. J Res Med Sci 2019; (Accepted on 08.09.2019, JRMS, Q1, IF=1.9)
- Motaharynia, A., Moein, S., **Kiyanpour, F.** et al. Olfactory receptors contribute to progression of kidney fibrosis. npj Syst Biol Appl 8, 8 (2022). <https://doi.org/10.1038/s41540-022-00217-w>
- Set up a diabetic nephropathy zebrafish model, RMRC, Isfahan, Iran
- Set up mouse kidney explant culture, RMRC, Isfahan, Iran
- Participate in preparing diabetic nephropathy mouse model, RMRC, Isfahan, Iran

RESEARCH INTERESTS

- Biomedical data science
- Disease Map constructing
- Systems Biology studies in kidney disease
- Bioinformatics studies in kidney disease

SKILLS

•In-vivo and in-vitro skills

- Designing primers
- DNA, RNA, and microRNA purification
- Real-time PCR
- Gel electrophoresis
- Gel purification
- DN animal model preparation
- Kidney explant culture preparation
- Protein extraction
- Protein measurement
- Performing ELISA test
- Zebrafish handling
- DN zebrafish modeling

•In-silico skills

- Adobe Photoshop
- Cytoscape software
- Gene Runner software
- mDraw software
- Mega software
- SUMO software
- Allele ID software
- Graphpad prism software
- C++ language
- Python language
- R language

LANGUAGES

- Persian
- English
- French (nouveau français apprenant en 2019)

ACTIVITIES AND HONORS

- Among the top 1% of the admitted Systems Biomedicine, Ministry of Health, Iran, 2021 (Rank 2 in Systems Biomedicine PhD. entrance exam)
- Among the top 10% of the admitted Medical Biotechnology, Ministry of Health, Iran, 2015 (Rank 27 in Medical Biotechnology M.Sc. entrance exam)
- Patent registered in the Center of Intellectual Property of Iran entitled "Use of Dianthus Powder as a Zebrafish Anesthetic Reagent" - registered ID: 139850140003008986
- Oral presentation on "**Gene Expression Analysis of Pancreatic Beta Cells from Type 2 Diabetes Provides Insights into the Pathogenesis of the Disease**", Third National Molecular Medicine Congress, 2016, Isfahan, Iran
- Participant in first USERN Congress, 2016, Tehran, Iran
- Executive member of Third Molecular Medicine Congress, 2016, Isfahan, Iran
- Poster presentation on "**Microarray Reanalysis of Diabetic Nephropathy Data Provides Insights into the Pathogenesis of the Disease**", Second International Regenerative Medicine Congress, 2017, Tehran, Iran
- Graduated from the English Iran language Institute (ILI) with *Above Average* score, 2017, Isfahan, Iran
- Top second researcher of Third National Systems Biology Congress for presenting a poster entitled "**Systems Biology Approaches Provide insight about Diabetic Nephropathy Pathogenesis**", 2017, Tehran, Iran
- Participant in 13th, 14th and 15th Royan Stem Cell Congress, 2017 and 2018 and presenting poster entitled "**A systematic Approach Identified the Holistic Map of Diabetic Nephropathy**", 2019, Tehran, Iran

REFEREE

- **Dr. Yousof Gheisari**, M.D. PhD. Of Pasteur Institute of Iran, Associated professor of Isfahan University of Medical Sciences, The head of Regenerative Medicine Research Center (RMRC)

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- **Dr. Rasoul Salehi**, Professor of Molecular Biology, Department of Genetics and Molecular Biology, School of Medicine, Isfahan University of Medical Sciences.

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- **Dr. Mansoor Salehi**, Professor of Human Genetics, Department of Genetics and Molecular Biology, School of Medicine, Isfahan University of Medical Sciences

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- **Dr. Samar Sayedyahosseini**, Postdoctoral Associate, Department of Anatomy and Cell Biology, University of Western Ontario London, Ontario, Canada

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