Maryam S Daneshpour

PROFILE

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Cellular and Molecular Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Education

2011 | Postdoctoral Fellowship in Population Genetics | deCODE genetics, Reykjavik, Iceland

- Focused on applying population genetics approaches to complex diseases. The main trait was diabetes and lipid level variation in the blood (doi:10.1038/ng.3561, doi:10.1038/ng.3928, doi:10.1038/ng.2882)
- Building a collaboration between the endocrine research center (Iran) and decode genetics to produce an Iranian reference genome. (Tehran Cardiometabolic Genetic Study)

2009 |Ph.D. in Molecular Genetics, National Institute for Genetic Engineering and Biotechnology; Tehran University, Tehran, Iran

- Thesis Title: "Association of Low HDL-C Levels with Specific Chromosomal Regions in Metabolic Syndrome Families" (Supervisors: Dr. Fereidun Azizi & Dr. Masoud Houshmand)
- **Main Focus:** Investigated and communicated complex genetic risk factors for low HDL cholesterol in Iranian families with metabolic syndrome, resulting in a publication in a high-impact scientific journal.

2004 | Master of Sciences in Cell & Molecular Biology, Khatam University, Tehran, Iran

- Thesis Title: "Association between the Cholesteryl Ester Transfer Protein TaqI Polymorphism and Low HDL-C Concentration in the Iranian Population" (Supervisor: Dr. Azizi)
- **Main Focus:** Communicated the link between a specific genetic variation and low HDL cholesterol in the Iranian population through a Master's thesis.

1999 | Bachelor of Sciences in Laboratory Science, Shahid Beheshti University of Medical Sciences, Tehran, Iran

1993 | Associate Degree in Laboratory Science, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Career/Academic Appointments

Current Positions since 2012

- **Professor in molecular genetics & Team Leader:**

    - Cultivated a thriving research environment, mentoring and training over 30 PhD candidates, many of whom now hold positions at prestigious international universities.
    - Led a team of 5 faculty members, spearheading research initiatives and fostering a collaborative research culture. (This option emphasizes both mentorship and leadership.)

- **Head of Iranian Genome Project (Gemiran)** (Administrative & Research)
    - Established a state-of-the-art server room to facilitate big data analysis for the Iranian Genome Project, significantly enhancing research capabilities.
- **Principal Investigator of Tehran Cardiometabolic Genetic Study (TCGS)** (Research & Project Management)
    - Spearheaded research efforts to understand the genetic basis of cardiometabolic diseases in the Tehran population to translate research findings into informative content for scientific publications, presentations, and potential grant proposals.
- **Vice-Chancellor of Cellular and Molecular Endocrine Research Center, Shahid Beheshti University of Medical Sciences** (Administrative & Leadership)
    - Oversaw the center's strategic direction and research activities.
- Supervisor/Investigator in DNA Banking Project for 15,000 Samples in Tehran Lipid and Glucose Study (TLGS) and head of Molecular Biology Lab in Endocrine Research Center (Research & Project Management)
    - Played a key role in a large-scale genetic epidemiology study focusing on lipid and glucose metabolism.
    - Developing reports, presentations, or educational materials for colleagues or stakeholders.

Previous Experience:

- 1995-2004: Member of Iodine Deficiency Disorders (IDD) Team: Contributed to global public health efforts by training teams in Oman and Afghanistan for urine iodine measurement.

Funding History

- **Current:** Principal Investigator on Tehran Cardiometabolic Genetic Study (TCGS) funded by a 20,000,000,000 Iranian Rial ($400,000) granted from the Ministry of Health and Medical Education (MOHME). This project involves ongoing collaboration (since 2012) with deCODE genetics for genotyping more than 15,000 family members from our longitudinal cohort and developing a custom reference genetic panel for the study. I have a proven track record of publishing impactful research in this field, with an **h-index of 29 and over 3750 citations**. Notably, I co-authored a highly influential publication in Nature Genetics which directly aligns with the research goals of the TCGS project.
- 2007-2009: Joint research project with the Faculty of Allied Health Sciences in Kuwait University and Centre of Biotechnology of Sfax, Tunisia (funding details can be added if relevant to the current proposal).

- 2006: Iranian Medicine Network Grant No: 183; DNA Bank for Tehran Lipid and Glucose study project (consider mentioning the funding amount if significant).
- 2007: Iran National Science Foundation Grant No: 83076; “Genetic and molecular biology projects in the Tehran Lipid and Glucose Study” (mention the funding amount if significant).

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