

Asiyeh Sadat Zahedi

MSc, **Cellular and Molecular Biology, Microbiology**, 2012; Shahed University

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Background

I've been interested in genetics since the days of elementary school. I started my university education in biology and I got high grades in genetic courses. Despite this interest, due to the industrial application of the field of microbiology, got MSc degree in microbiology by focusing on its industrial aspects. The field of microbiology did not attract me as much as the field of genetics. Therefore, I passed some advanced courses of molecular biology and genetics at Cellular and Molecular Research Center, Research Institute for Endocrine and Metabolic Sciences and I have continued to work with the center from 2014.

Education

- **B.Sc. | 2003 - 2007| Shahid Beheshti University; Biology**
- **M.sc | 2010 - 2012| Shahed University; Cellular and Molecular Biology, Microbiology**

Thesis title: Modeling Evolution of the Genetic Material by the Statistical Mechanics.

My goal in the Master's Thesis was characterized of microbial structure of soil to optimized bioremediation methods. Bioremediation is one of the natural processes that helps to remove contaminants from the environment by microorganisms. This is one of the most cost-effective ways to eliminate oil pollution.

Publications

1. Faam B, **Zahedi A**, Hedayati M, Azizi F, Mansournia Ma, Daneshpour M ASSOCIATION BETWEEN SR-BI EXON1 (G→A) POLYMORPHISM AND LIPID PROFILE IN TEHRAN POPULATION: TEHRAN LIPID AND GLUCOSE STUDY. *Iranian Journal of Diabetes and Lipid Disorders*. 2015;**15**:45-52.
2. **Zahedi AS**, Sedaghati-Khayat B, Behnami S, Azizi F, Daneshpour MSJTUMJTP Associations of common polymorphisms in GCKR with metabolic syndrome. 2018;**76**:459-468.
3. Javanrouh Givi N, Najd Hassan Bonab L, Barzin M, **Zahedi A**, Sedaghati-khayat B, Akbarzadeh M, et al. The joint effect of PPARG upstream genetic variation in association with long-term persistent obesity: Tehran cardio-metabolic genetic study (TCGS). *Eating and Weight Disorders - Studies on Anorexia, Bulimia and Obesity* 2021;
4. Moazzam-Jazi, M., Najd Hassan Bonab, L., **Zahedi, A.S.** et al. High genetic burden of type 2 diabetes can promote the high prevalence of disease: a longitudinal cohort study in Iran. *Sci Rep* 10, 14006 (2020). <https://doi.org/10.1038/s41598-020-70725-4>

5. Hosseinpour-Niazi S, Bakhshi B, **Zahedi A-S**, Akbarzadeh M, Daneshpour MS, Mirmiran P, et al. TCF7L2 polymorphisms, nut consumption, and the risk of metabolic syndrome: a prospective population based study. *Nutrition & Metabolism* 2021;**18**:10.
6. **Zahedi AS**, Akbarzadeh M, Sedaghati-Khayat B, Seyedhamzehzadeh A. Daneshpour MS GCKR common functional polymorphisms are associated with metabolic syndrome and its components: a 10-year retrospective cohort study in Iranian adults. *Diabetology & Metabolic Syndrome* 2021;**13**:20.
7. Kolifarhood G, Daneshpour MS, **Zahedi AS**, Khosravi N, Sedaghati-Khayat B, Guity K, et al. Familial genetic and environmental risk profile and high blood pressure event: a prospective cohort of cardio-metabolic and genetic study. *Blood Pressure* 2021;1-9.
8. Akbarzadeh, M., P. Riahi, A. Ramezankhani, S. R. Dehkordi, M. A. Roudbar, M. Zarkesh, K. Guity, D. Khalili, **A. S. Zahedi**, F. Azizi and M. S. Daneshpour (2022). "Parental Transmission Plays the Major Role in High Aggregation of Type 2 Diabetes in Iranian Families: Tehran Lipid and Glucose Study." *Canadian Journal of Diabetes* 46(1): 60-68.
9. Hosseini-Esfahani, F., **A. S. Zahedi**, M. Akbarzadeh, A. Seyedhamzehzadeh, M. S. Daneshpour, P. Mirmiran and F. Azizi (2022). "The resemblance of dietary intakes in three generations of parent-offspring pairs: Tehran lipid and glucose study." *Appetite* 169: 105794.
10. Moazzam-Jazi M, **Zahedi AS**, Akbarzadeh M, Azizi F, and Daneshpour M S.(2022) Diverse effect of MC4R risk alleles on obesity-related traits over a lifetime: Evidence from a well-designed cohort study. *Gene*. 807: 145950.
11. Akbarzadeh, M., N. Alipour, H. Moheimani, **A. S. Zahedi**, F. Hosseini-Esfahani, H. Lanjanian, F. Azizi and M. S. Daneshpour (2022). "Evaluating machine learning-powered classification algorithms which utilize variants in the GCKR gene to predict metabolic syndrome: Tehran Cardio-metabolic Genetics Study." *Journal of Translational Medicine* 20(1): 164.
12. Mirmiran P, **Zahedi AS**, Koochakpour G, Hosseini-Esfahani F, Akbarzadeh M, Daneshpour MS, et al. (2022) Resemblance of nutrient intakes in three generations of parent-offspring pairs: Tehran lipid and Glucose Study. *PLoS ONE* 17(4): e0266941. <https://doi.org/10.1371/journal.pone.0266941>
13. Lanjanian, H., L. Najd Hassan Bonab, M. Akbarzadeh, M. Moazzam-Jazi, **A. S. Zahedi**, S. Masjouidi and M. S. Daneshpour (2022). "Sex, age, and ethnic dependency of lipoprotein variants as the risk factors of ischemic heart disease: a detailed study on the different age-classes and genders in Tehran Cardiometabolic Genetic Study (TCGS)." *Biology of Sex Differences* **13**(1): 4.

Laboratory Assistant

Research Institute for Endocrine Sciences Shahid Beheshti University of Medical Sciences Tehran, Iran

Genoscope Diagnostics Company Tehran, Iran

Computer skills

- SPSS
- Progeny

- Linux
- Gene Runner
- Office
- R

Education Courses

- PCR Primer Design, 2013
- Tools for research: from information gathering to effective presentation, 2013
- Application of UCSC genome browser in medicine, 2013
- primary & Advanced research methodology, 2016
- Linux and Shell Script, 2018
- Programming with R and its application in genome wide association analysis Article Writing, 2019