

Maryam Tanhapour



CONTACT

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LANGUAGES

Persian

English

PROFILE

I was born on December 19, 1983 in Kermanshah, I live in Karaj, Alborz.

I was graduated with a Ph.D degree in Clinical Biochemistry.
Department of Clinical Biochemistry, Tehran University of Medical Science, Tehran, Iran.

EDUCATION

2018 - 2024

- Ph.D. of clinical biochemistry, Tehran University of Medical Sciences, Tehran, Iran.

Supervisors:

1. Abolfazl Golestani, Professor of Clinical Biochemistry, Department of Clinical Biochemistry, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran
2. Mitra Nourbakhsh, Department of Biochemistry, Faculty of Medicine, Iran University of Medical Sciences, Tehran, Iran.

Advisor:

1. Ghodratollah Panahi, Assistant Professor of Clinical Biochemistry, Department of Clinical Biochemistry, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

Thesis title:

The investigation of the relationship between Sirtuin 1 (SIRT1) and the parameters of adipose tissue fibrosis including collagen VI, Osteopontin, lysyl oxidase, and matrix metalloproteinases 2 and 9 in pre-adipocyte 3T3-L1 cells

2012 - 2015

- Master of Science (M.Sc) in clinical Biochemistry, Kermanshah University of Medical Sciences, Kermanshah, Iran

Supervisor:

1. Asad Vaisi-Raygani, Professor of Clinical Biochemistry, Department of Clinical Biochemistry, School of Medicine, Kermanshah University of Medical Sciences, Kermanshah,

Iran

Advisors:

1. Zohreh Rahimi, Professor of Clinical Biochemistry, Department of Clinical Biochemistry, School of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran
2. Fariborz Bahrehmand, Assistant Professor of Biomedical Sciences, Department of Clinical Biochemistry, School of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran

Thesis title:

Investigating the relationship between mutations at -1722 (T/C) and -1661 (A/G) of the cytotoxic T lymphocyte-antigen-4 gene promoter and serum levels of neopterin and malondialdehyde with the risk of heart disease in systemic lupus erythematosus patients from Kermanshah, west of Iran.

2003 - 2007

- Bachelor of Sciences (B.Sc.) in Veterinary Laboratory Sciences, Razi University of Kermanshah, Kermanshah, Iran

Advisor:

1. Ali Ghashghaei, Doctor of Veterinary Medicine (DVM), Assistant Professor of Veterinary Medicine, Department of Veterinary Medicine, School of Veterinary Medicine, Razi University, Kermanshah, Iran

Thesis title:

Electrophoresis

Ph.D. THESIS

We aimed to investigate the effects of alteration of Sirt1 and Hif-1 α proteins activity on genes expression related to adipose tissue fibrosis. 3T3-L1 pre-adipocytes were transfected with SIRT1-specific siRNA, confirmed by real-time polymerase chain reaction (RT-PCR) and western blotting. Additionally, cells were treated with varying concentrations of resveratrol and sirtinol as the activator and inhibitor of Sirt1, respectively. Involvement of Hif-1 α was evaluated by treatment with echinomycin. Subsequently, we assessed the gene and protein expressions related to fibrosis in the extracellular matrix of adipose tissue, including collagen VI (Col VI), lysyl oxidase (Lox), matrix metalloproteinase-2 (Mmp-2), Mmp-9, and osteopontin (Opn) in pre-adipocytes through RT-PCR and western blot.

SKILLS

DNA, RNA, and protein extraction of blood and cell
Cell culture
Real-time PCR
RFLP
Western Blot
2D gel electrophoresis
Transfection
ELISA
Enzyme activity assay
Knowledge of computational and statistical analysis of
biological systems by using the GraphPad Prism 9 software.
BLAST, Primer design, and detecting protein homology using NCBI
tools. Cloning design with CLC sequence viewer and snapGene.

WORK EXPERIENCE

23/07/2015 - 17/07/2016

- Research assistant at Fertility and infertility research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran.

22/10/2016 – 03/01/2021

- Research assistant at Clinical Biochemistry Lab, Kermanshah University of Medical Sciences, Kermanshah, Iran.

RESEARCH PROJECTS

04/04/2015 - 29/03/2016

1. Investigation of the association between angiotensin-converting enzyme gene variants [ACE I/D] and matrix metalloproteinase 7 (A-181G) MMP-7 with the risk of ESRD in Kermanshah population.

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

23/07/2015 - 17/07/2016

2. Investigation of nitric oxide changes in body fluids and cell culture media.

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

01/06/2016 - 29/10/2016

3. Comparative investigation of salivary nitric oxide levels in smokers and non-smokers.

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

22/10/2016 - 23/8/2017

4. Investigation of the butyryl cholinesterase and acetylcholinesterase enzymes activity in saliva and serum in patients with myocardial infarction compared with healthy individuals.

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

22/10/2016 - 23/8/2017

5. Investigation of Sorafenib effect on telomerase and BCL2 gene expression in male rats with liver cancer.

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

03/01/2018 - 03/01/2019

6. Investigation of the association between BCL2-936 (C/A) and Bax-248 (G/A) mutations with breast cancer in Kermanshah population

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

04/01/2020 - 03/01/2021

7. Investigation of the association between the + 49A/G and (G/A +6230) CT60 mutations of CTLA-4 gene with the risk of type 1 diabetes in Kermanshah population

https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004576

22/05/2022 - 04/01/2023

8. The investigation of the effect of oxidative stress on adipose tissue inflammation, and fibrosis in pre-adipocyte 3T3-L1 cells

https://research.tums.ac.ir/teammat?xyz=jTtDuMIg9c4M46INCBCTA0q5-8HC3-XCJhNeBInzzGbMTq1JKrmqF6O8NZoYylbz_J0iyq2Cc5JHDbkRkDxcz0nEMyT5ZetghRfqjTgTT4oXyZ

BOOK

clinical biochemistry in diagnosis of diseases

https://research.kums.ac.ir/webreport/view.action?webreport_code=4000&masterCode=3000372

1. **Tanhapour M**, Miri A, Vaisi-Raygani A, Bahrehmand F, Kiani A, Rahimi Z, et al. Synergism between apolipoprotein E ϵ 4 allele and paraoxonase (PON1) 55-M allele is associated with risk of systemic lupus erythematosus. *Clinical rheumatology*. 2018;37(4):971-7.
2. **Tanhapour M**, Vaisi-Raygani A, Bahrehmand F, Khazaei M, Kiani A, Rahimi Z, et al. Association between the cytotoxic T-lymphocyte antigen-4 mutations and the susceptibility to systemic lupus erythematosus; Contribution markers of inflammation and oxidative stress. *Cellular and Molecular Biology*. 2016;62(12):56-61.
3. **Tanhapour M**, Shahmohammadnejad S, Vaisi-Raygani A, Kiani A, Shakiba Y, Rahimi Z, et al. Association between activity and genotypes of paraoxonase1 L 55 M (rs854560) increases the disease activity of rheumatoid arthritis through oxidative stress. *Molecular biology reports*. 2019;46(1):741-9.
4. **Tanhapour M**, Falahi B, Vaisi-Raygani A, Bahrehmand F, Kiani A, Rahimi Z, et al. Angiotensin-converting enzyme insertion/deletion (rs106180) and angiotensin type 1 receptor A1166C (rs106165) genotypes and psoriasis: Correlation with cellular immunity, lipid profile, and oxidative stress markers. *Journal of cellular biochemistry*. 2019;120(2):2627-33.
5. **Tanhapour M**, Vaisi-Raygani A, Khazaei M, Rahimi Z, Pourmotabbed T. Cytotoxic T-lymphocyte associated antigen-4 (CTLA-4) polymorphism, cancer, and autoimmune diseases. *AIMS Med Sci*. 2017;4:395-412.
6. Rahimi Z, Kasraei R, Najafi F, **Tanhapoor M**, Abdi H, Rahimi Z, et al. Cancer notification at a referral hospital of Kermanshah, Western Iran (2006-2009). *Asian Pacific Journal of Cancer Prevention*. 2015;16(1):133-7.
7. Nomani H, Khanmohamadian H, Vaisi-Raygani A, Shakiba E, **Tanhapour M**, Rahimi Z. Chemerin rs17173608 and vaspin rs2236242 gene variants on the risk of end stage renal disease (ESRD) and correlation with plasma malondialdehyde (MDA) level. *Renal failure*. 2018;40(1):350-6.
8. Rahimi Z, Abdi H, **Tanhapoor M**, Rahimi Z, Vaisi-Raygani A, Nomani H. ACE I/D and MMP-7 A-181G variants and the risk of end stage renal disease. *Molecular Biology Research Communications*. 2017;6(1):41.
9. Kiani A, Mohamadi-Nori E, Vaisi-Raygani A, **Tanhapour M**, Elahi-Rad S, Bahrehmand F, et al. Vitamin D-binding protein and vitamin D receptor genotypes and 25-hydroxyvitamin D levels are associated with development of aortic and mitral valve calcification and coronary artery diseases. *Molecular biology reports*. 2019;46(5):5225-36.

10. Nomani H, Hesami O, Vaisi-Raygani A, **Tanhapour M**, Bahrehmand F, Rahimi Z, et al. Association between the– 11377 C/G and– 11391 G/A polymorphisms of adiponectin gene and adiponectin levels with susceptibility to type 1 and type 2 diabetes mellitus in population from the west of Iran, correlation with lipid profile. *Journal of cellular biochemistry*. 2019;120(3):3574-82.
11. Ghobadi F, Vaisi-Raygani A, Bahrehmand F, **Tanhapour M**, Kiani A, Rahimi Z, et al. Genetic variants of Pre-microRNAs A-499G (rs3746444) and T-196a2C (rs11614913) with Ulcerative Colitis (UC) and investigated with Thiopurine-S-Methyltransferase (TPMT) Activity. *Clinical laboratory*. 2017;63(10):1683-90.
12. Bahrehmand F, Vaisi-Raygani A, Kiani A, Bashiri H, Zobeiri M, **Tanhapour M**, et al. Whole-Blood Thiopurine S-Methyltransferase Genotype and Phenotype Concordance in Iranian Kurdish Ulcerative Colitis (UC) Patients. *Clin Lab*. 2017;63(5):947-54.
13. Bahrehmand F, Kiani A, Vaisi-Raygani A, Bashiri H, Zobeiri M, **Tanhapour M**, et al. Pharmacogenetics of drug metabolizing enzyme: thiopurine methyl transferase phenotypes and multidrug resistance 1 gene polymorphism in inflammatory bowel disease. *Cellular and Molecular Biology*. 2016;62(7):102-9.
14. Kiani A, Kamankesh M, Vaisi-Raygani A, Moradi M-R, **Tanhapour M**, Rahimi Z, et al. Activities and polymorphisms of MMP-2 and MMP-9, smoking, diabetes and risk of prostate cancer. *Molecular biology reports*. 2020;47(12):9373-83.
15. Lotfi F, Bahrehmand F, Vaisi-Raygani A, Khodarahmi R, **Tanhapour M**, Kiani A, et al. Cytochrome P450 (CYP450, 2D6* A), N-Acetyltransferase-2 (NAT2* 7, A) and Multidrug Resistance 1 (MDR1 3435 T) Alleles Collectively Increase Risk of Ulcerative Colitis. *Archives of Iranian medicine*. 2018;21(11):530-5.
16. Aliyari M, Elieh Ali Komi D, Kiani A, Moradi M, **Tanhapour M**, Rahimi Z, et al. The role of caveolin-1 and endothelial nitric oxide synthase polymorphisms in susceptibility to prostate cancer. *International Journal of Experimental Pathology*. 2021.
17. **Tanhapour M**, Golestani A, Vaisi-Raygani A, Aminian M. Cross-Reacting Material 197, a Specific Inhibitor of HB-EGF, and Its Anticancer Effects. *Basic & Clinical Cancer Research*. 2022.
18. Moayedi K, Orandi S, Ebrahimi R, **Tanhapour M**, Moradi M, Abbastabar M, et al. A novel approach to type 3 diabetes mechanism: The interplay between noncoding RNAs and insulin signaling pathway in Alzheimer's disease. *Journal of Cellular Physiology*. 2022;237(7):2838-61.
19. Kiani A, Elieh-Ali-Komi D, Bahrehmand F, Mostafaei S, Vaisi-Raygani A, Baniamerian H, Aghaz F, **Tanhapour M**, et al. Association of angiotensin-converting enzyme (ACE) I/D variation with biochemical parameters and oxidative stress markers in systemic lupus erythematosus patients in west of Iran. *Molecular Biology Reports*. 2023:1-12.

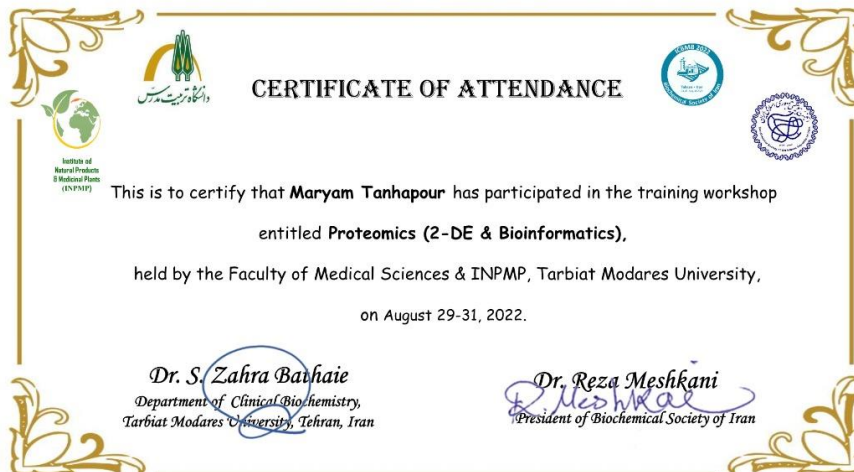
20. Tanhapour M, Nourbakhsh M, Panahi G, Golestani A. The role of Sirtuin 1 in regulation of fibrotic genes expression in pre-adipocytes. Journal of Diabetes & Metabolic Disorders. 2024:1-11.

MEMBER OF ORGANIZING COMMITTEE

1. Scientific committee of 14th International Congress of Medical Lab. and Clinic. 2-4 Feb. 2023. School of Medicine. Shahid Beheshti University of Medical Sciences, Tehran, Iran



2. Training Workshop entitled as “proteomics (2DE and Bioinformatics)”, 29-31 Aug 2022. Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.



CERTIFICATE OF ATTENDANCE



This is to certify that **Maryam Tanhapour** has participated in the training workshop
entitled **Proteomics (2-DE & Bioinformatics)**,
held by the Faculty of Medical Sciences & INPMP, Tarbiat Modares University,
on August 29-31, 2022.

Dr. S. Zahra Balhaie
Department of Clinical Biochemistry,
Tarbiat Modares University, Tehran, Iran

Dr. Reza Meshkini
President of Biochemical Society of Iran