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***Curriculum Vitae***  
***CV***

**Reza Fadaei**

PhD of Clinical Biochemistry

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## Personal information

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## Education

- Jan, 2014- Sep, 2018, PhD, Clinical Biochemistry, Tehran University of Medical Sciences, Tehran, Iran
- Sep, 2011- Jan, 2014, MSc. Clinical Biochemistry, Tehran University of Medical Sciences, Tehran, Iran
- Jan, 2007- Jun, 2011 B.Sc. Biology, Razi university, Kermanshah, Iran

## Work experience

- Oct, 2018 – continuing, Assistant professor, Kermanshah University of Medical Sciences

## Award and Honors

1. **Top B.Sc. Student** of Biology, Razi University.
2. National MSc. Entrance Exam (Clinical Biochemistry); **First Rank**.
3. **Top MSc. Student** of Clinical Biochemistry, Tehran University of Medical Sciences.
4. **Exceptional Talent** and Member of Exceptional Talent Center, Tehran University of Medical Sciences
5. Special Military Service Award from **National Elite Foundation**.
6. Award of Dr. Shahryari from **National Elite Foundation**.
7. Best researcher, 2021, Kermanshah University of Medical Sciences
- 8.

## Articles

1. Fadaei R, Poustchi H, Meshkani R, Moradi N, Golmohammadi T, Merat S. Impaired HDL cholesterol efflux capacity in patients with non-alcoholic fatty liver disease is associated with subclinical atherosclerosis. *Sci Rep.* 2018;8(1):11691.
2. Fadaei R, Mohassel Azadi S, Rhéaume E, Khazaie H. High-density lipoprotein cholesterol efflux capacity in patients with obstructive sleep apnea and its relation with disease severity. *Lipids Health Dis.* 2022;21(1):116.
3. Fadaei R, Davies SS. Oxidative modification of HDL by lipid aldehydes impacts HDL function. *Arch Biochem Biophys.* 2022;730:109397.
4. Fadaei R, Shateri H, DiStefano JK, Moradi N, Mohammadi M, Emami F, et al. Higher circulating levels of ANGPTL8 are associated with body mass index, triglycerides, and endothelial dysfunction in patients with coronary artery disease. *Mol Cell Biochem.* 2020;469(1-2):29-39.
5. Fadaei R, Safari-Faramani R, Rezaei M, Ahmadi R, Rostampour M, Moradi N, et al. Circulating levels of oxidized low-density lipoprotein in patients with obstructive sleep apnea: a systematic review and meta-analysis. *Sleep Breath.* 2020;24(3):809-15.
6. Fadaei R, Safari-Faramani R, Hosseini H, Koushki M, Ahmadi R, Rostampour M, et al. Reply to comments on "Increased the circulating levels of malondialdehyde in patients with obstructive sleep apnea: a systematic review and meta-analysis". *Sleep Breath.* 2022;26(2):919-21.
7. Fadaei R, Safari-Faramani R, Hosseini H, Koushki M, Ahmadi R, Rostampour M, et al. Increased the circulating levels of malondialdehyde in patients with obstructive sleep apnea: a systematic review and meta-analysis. *Sleep Breath.* 2021;25(4):1753-60.
8. Fadaei R, Moradi N, Kazemi T, Chamani E, Azdaki N, Moezibady SA, et al. Decreased serum levels of CTRP12/adipolin in patients with coronary artery disease in relation to inflammatory cytokines and insulin resistance. *Cytokine.* 2019;113:326-31.
9. Fadaei R, Moradi N, Baratchian M, Aghajani H, Malek M, Fazaeli AA, et al. Association of C1q/TNF-Related Protein-3 (CTRP3) and CTRP13 Serum Levels with Coronary Artery Disease in Subjects with and without Type 2 Diabetes Mellitus. *PLoS One.* 2016;11(12):e0168773.
10. Fadaei R, Meshkani R, Poustchi H, Fallah S, Moradi N, Panahi G, et al. Association of carotid intima media thickness with atherogenic index of plasma, apo B/apo A-I ratio and paraoxonase activity in patients with non-alcoholic fatty liver disease. *Arch Physiol Biochem.* 2019;125(1):19-24.
11. Fadaei R, Koushki M, Sharafkhaneh A, Moradi N, Ahmadi R, Rostampour M, et al. The impact of continuous positive airway pressure therapy on circulating levels of malondialdehyde: a systematic review and meta-analysis. *Sleep Med.* 2020;75:27-36.
12. Fadaei R, Goodarzi G, Yarahmadi S, Allahyari P, Fallah S, Moradi N. Circulating Levels of C1q/TNF-Related Protein 3 (CTRP3) and CTRP9 in Gestational Diabetes and Their Association with Insulin Resistance and Inflammatory Cytokines. *Lab Med.* 2022.

13. Fadaei R, Dadmanesh M, Moradi N, Ahmadi R, Shokoohi Nahrkhalaji A, Aghajani H, et al. Serum levels of subfatin in patients with type 2 diabetes mellitus and its association with vascular adhesion molecules. *Arch Physiol Biochem.* 2020;126(4):335-40.
14. Fadaei R, Bagheri N, Heidarian E, Nouri A, Hesari Z, Moradi N, et al. Serum levels of IL-32 in patients with type 2 diabetes mellitus and its relationship with TNF- $\alpha$  and IL-6. *Cytokine.* 2020;125:154832.
15. Fadaei R, Azadi SM, Laher I, Khazaie H. Increased Levels of ANGPTL3 and CTRP9 in Patients With Obstructive Sleep Apnea and Their Relation to Insulin Resistance and Lipid Metabolism and Markers of Endothelial Dysfunction. *Lab Med.* 2022.
16. Vatannejad A, Salimi F, Moradi N, Fouani FZ, Zandieh Z, Ansaripour S, et al. Evaluation of angiopoietin-like protein 3 (ANGPTL3) levels in polycystic ovary syndrome. *Life Sci.* 2020;263:118595.
17. Vatannejad A, Fadaei R, Salimi F, Fouani FZ, Habibi B, Shapourizadeh S, et al. Plasma Complement C1q/tumor necrosis factor-related protein 15 concentration is associated with polycystic ovary syndrome. *PLoS One.* 2022;17(6):e0263658.
18. Tarighi S, Najafi M, Hossein-Nezhad A, Ghaedi H, Meshkani R, Moradi N, et al. Association Between Two Common Polymorphisms of Vitamin D Binding Protein and the Risk of Coronary Artery Disease: A Case-control Study. *J Med Biochem.* 2017;36(4):349-57.
19. Shokoohi Nahrkhalaji A, Ahmadi R, Fadaei R, Panahi G, Razzaghi M, Fallah S. Higher serum level of CTRP15 in patients with coronary artery disease is associated with disease severity, body mass index and insulin resistance. *Arch Physiol Biochem.* 2022;128(1):276-80.
20. Shateri H, Fadaei R, Najafi M, Vatannejad A, Teimouri M, Zali F, et al. Circulating Levels of IL-35 and Gene Expression of FoxP3 in Coronary Artery Disease: Is There Any Interplay Between Them and 25-Hydroxyvitamin D3? *Clin Lab.* 2018;64(4):483-90.
21. Shanaki M, Moradi N, Fadaei R, Zandieh Z, Shabani P, Vatannejad A. Lower circulating levels of CTRP12 and CTRP13 in polycystic ovarian syndrome: Irrespective of obesity. *PLoS One.* 2018;13(12):e0208059.
22. Shanaki M, Moradi N, Emamgholipour S, Fadaei R, Poustchi H. Lower circulating irisin is associated with nonalcoholic fatty liver disease and type 2 diabetes. *Diabetes Metab Syndr.* 2017;11 Suppl 1:S467-s72.
23. Shanaki M, Fadaei R, Moradi N, Emamgholipour S, Poustchi H. The Circulating CTRP13 in Type 2 Diabetes and Non-Alcoholic Fatty Liver Patients. *PLoS One.* 2016;11(12):e0168082.
24. Sadeghi A, Fadaei R, Moradi N, Fouani FZ, Roozbehkia M, Zandieh Z, et al. Circulating levels of C1q/TNF- $\alpha$ -related protein 6 (CTRP6) in polycystic ovary syndrome. *IUBMB Life.* 2020;72(7):1449-59.
25. Rostampour M, Noori K, Heidari M, Fadaei R, Tahmasian M, Khazaie H, et al. White matter alterations in patients with obstructive sleep apnea: a systematic review of diffusion MRI studies. *Sleep Med.* 2020;75:236-45.

26. Rostampour M, Gharaylou Z, Rostampour N, Kaveh D, Noori K, Fadaei R, et al. Asymmetric alterations of white matter integrity in patients with insomnia disorder. *Brain Imaging Behav.* 2022;16(1):389-96.
27. Nowrouzi-Sohrabi P, Kalani M, Izadpanah P, Ahmadvand H, Fakhour M, Fadaei R, et al. Vitamin D status influences cytokine production and MALAT1 expression from the PBMCs of patients with coronary artery disease and healthy controls. *Rev Assoc Med Bras (1992).* 2020;66(12):1712-7.
28. Nikseresht M, Azarmehr N, Arya A, Alipoor B, Fadaei R, Khalvati B, et al. Circulating mRNA and plasma levels of osteoprotegerin and receptor activator of NF- $\kappa$ B ligand in nonalcoholic fatty liver disease. *Biotechnol Appl Biochem.* 2021;68(6):1243-9.
29. Naghdalipour M, Moradi N, Fadaei R, Rezaghi Barez S, Sayyahfar S, Mokhtare M, et al. Alteration of miR-21, miR-433 and miR-590 tissue expression related to the TGF- $\beta$  signaling pathway in ulcerative colitis patients. *Arch Physiol Biochem.* 2022;128(5):1170-4.
30. Moradi N, Najafi M, Sharma T, Fallah S, Koushki M, Peterson JM, et al. Circulating levels of CTRP3 in patients with type 2 diabetes mellitus compared to controls: A systematic review and meta-analysis. *Diabetes Res Clin Pract.* 2020;169:108453.
31. Moradi N, Fouani FZ, Vatannejad A, Bakhti Arani A, Shahrzad S, Fadaei R. Serum levels of Asprosin in patients diagnosed with coronary artery disease (CAD): a case-control study. *Lipids Health Dis.* 2021;20(1):88.
32. Moradi N, Fadaei R, Rashidbeygi E, Bagheri Kargasheh F, Malek M, Shokoohi Nahrkhalaji A, et al. Evaluation of changing the pattern of CTRP5 and inflammatory markers levels in patients with coronary artery disease and type 2 diabetes mellitus. *Arch Physiol Biochem.* 2022;128(4):964-9.
33. Moradi N, Fadaei R, Khamseh ME, Nobakht A, Rezaei MJ, Aliakbary F, et al. Serum levels of CTRP3 in diabetic nephropathy and its relationship with insulin resistance and kidney function. *PLoS One.* 2019;14(4):e0215617.
34. Moradi N, Fadaei R, Haqqou M, Barez SR, Kargasheh FB, Shanaki M, et al. Emerging Role of miR-372 and miR-101a in Head and Neck Squamous Cell Carcinoma. *Clin Lab.* 2020;66(4).
35. Moradi N, Fadaei R, Emamgholipour S, Kazemian E, Panahi G, Vahedi S, et al. Association of circulating CTRP9 with soluble adhesion molecules and inflammatory markers in patients with type 2 diabetes mellitus and coronary artery disease. *PLoS One.* 2018;13(1):e0192159.
36. Moradi N, Fadaei R, Ahmadi R, Mohammad MH, Shahmohamadnejad S, Tavakoli-Yaraki M, et al. Role of serum MMP-9 levels and vitamin D receptor polymorphisms in the susceptibility to coronary artery disease: An association study in Iranian population. *Gene.* 2017;628:295-300.
37. Moradi N, Fadaei R, Ahmadi R, Kazemian E, Fallah S. Lower Expression of miR-10a in Coronary Artery Disease and its Association with Pro/Anti-Inflammatory Cytokines. *Clin Lab.* 2018;64(5):847-54.
38. Mohassel Azadi S, Shateri H, Mohammadi M, Fadaei R, Sajedi F, Ziamajidi N. Increased circulating level of CTRP15 in patients with type 2 diabetes mellitus and its relation with inflammation and insulin resistance. *J Diabetes Metab Disord.* 2021;20(2):1499-504.

39. Mohamadinarab M, Ahmadi R, Gholamrezayi A, Rahvar F, Naghdalipour M, Setayesh L, et al. Serum levels of C1q/TNF-related protein-3 in inflammatory bowel disease patients and its inverse association with inflammatory cytokines and insulin resistance. *IUBMB Life*. 2020;72(8):1698-704.
40. Mahmoudi M, Aslani S, Fadaei R, Jamshidi AR. New insights to the mechanisms underlying atherosclerosis in rheumatoid arthritis. *Int J Rheum Dis*. 2017;20(3):287-97.
41. Kazemi Fard T, Tavakoli S, Ahmadi R, Moradi N, Fadaei R, Mohammadi A, et al. Evaluation of IP10 and miRNA 296-a Expression Levels in Peripheral Blood Mononuclear Cell of Coronary Artery Disease Patients and Controls. *DNA Cell Biol*. 2020;39(9):1678-84.
42. Kazemi Fard T, Ahmadi R, Akbari T, Moradi N, Fadaei R, Kazemi Fard M, et al. Klotho, FOXO1 and cytokines associations in patients with coronary artery disease. *Cytokine*. 2021;141:155443.
43. Hosseini H, Homayouni-Tabrizi M, Amiri H, Safari-Faramani R, Moradi MT, Fadaei R, et al. The effect of continuous positive airway pressure on total antioxidant capacity in obstructive sleep apnea: a systematic review and meta-analysis. *Sleep Breath*. 2022.
44. Goodarzi G, Setayesh L, Fadaei R, Khamseh ME, Aliakbari F, Hosseini J, et al. Circulating levels of asprosin and its association with insulin resistance and renal function in patients with type 2 diabetes mellitus and diabetic nephropathy. *Mol Biol Rep*. 2021;48(7):5443-50.
45. Gholamrezayi A, Mohamadinarab M, Rahbarinejad P, Fallah S, Barez SR, Setayesh L, et al. Characterization of the serum levels of Meteorin-like in patients with inflammatory bowel disease and its association with inflammatory cytokines. *Lipids Health Dis*. 2020;19(1):230.
46. Ghaffari T, Moradi N, Chamani E, Ebadi Z, Fadaei R, Alizadeh-Fanalou S, et al. Captopril and Spironolactone can Attenuate Diabetic Nephropathy in Wistar Rats by Targeting ABCA1 and microRNA-33. *Curr Pharm Des*. 2022;28(16):1367-72.
47. Fouani FZ, Fadaei R, Moradi N, Zandieh Z, Ansaripour S, Yekaninejad MS, et al. Circulating levels of Meteorin-like protein in polycystic ovary syndrome: A case-control study. *PLoS One*. 2020;15(4):e0231943.
48. Fallah S, Marsche G, Mohamadinarab M, Mohassel Azadi S, Ghasri H, Fadaei R, et al. Impaired cholesterol efflux capacity in patients with Helicobacter pylori infection and its relation with inflammation. *J Clin Lipidol*. 2021;15(1):218-26.e1.
49. Emamgholipour S, Moradi N, Beigy M, Shabani P, Fadaei R, Poustchi H, et al. The association of circulating levels of complement-C1q TNF-related protein 5 (CTRP5) with nonalcoholic fatty liver disease and type 2 diabetes: a case-control study. *Diabetol Metab Syndr*. 2015;7:108.
50. Ebadi Z, Moradi N, Kazemi Fard T, Balochnejadmojarad T, Chamani E, Fadaei R, et al. Captopril and Spironolactone Can Attenuate Diabetic Nephropathy in Wistar Rats by Targeting microRNA-192 and microRNA-29a/b/c. *DNA Cell Biol*. 2019;38(10):1134-42.
51. Dadmanesh M, Aghajani H, Fadaei R, Ghorban K. Lower serum levels of Meteorin-like/Subfatin in patients with coronary artery disease and type 2 diabetes mellitus are negatively associated with insulin resistance and inflammatory cytokines. *PLoS One*. 2018;13(9):e0204180.

52. Dabili S, Fallah S, Aein M, Vatannejad A, Panahi G, Fadaei R, et al. Survey of the effect of doxorubicin and flavonoid extract of white *Morus alba* leaf on apoptosis induction in a-172 GBM cell line. *Arch Physiol Biochem*. 2019;125(2):136-41.
53. Ahmadi R, Heidarian E, Fadaei R, Moradi N, Malek M, Fallah S. miR-342-5p Expression Levels in Coronary Artery Disease Patients and its Association with Inflammatory Cytokines. *Clin Lab*. 2018;64(4):603-9.
54. Ahmadi R, Fadaei R, Shokoohi Nahrkhalaji A, Panahi G, Fallah S. The impacts of C1q/TNF-related protein-15 and adiponectin on Interleukin-6 and tumor necrosis factor- $\alpha$  in primary macrophages of patients with coronary artery diseases. *Cytokine*. 2021;142:155470.

## Teaching

- Experimental Biochemistry, MD & Pharm.D.
- Clinical Biochemistry, Lipids and Lipoproteins, Pharm D.
- Clinical Biochemistry, Renal Functions and Disorders, Clinical Biochemistry MSc.
- Biochemistry, Carbohydrates Structure, MD.
- Biochemistry, Nucleic Acids Structure, Nano technology MSc.
- Biochemistry, Calcium Phosphate and Magnesium Metabolism, MD.
- Endocrinology of Pregnancy, Clinical Biochemistry PhD.
- Medical Biochemistry, MD, KUMS.
- Medical Biochemistry, Nursery, KUMS

## Research Projects

- 1- Evaluating serum cholesterol efflux capacity in patients with NAFLD and effect of plasma from these patients on expression of ABCA1 and ABCG1 in THP-1 macrophages
- 2- Evaluation of serum cholesterol efflux capacity in patients with *Helicobacter Pylori* infection in comparison with healthy subjects
- 3- The investigation of gene expression of CTRP3 and CTRP13 in PBMCs and their serum concentrations in patients with Coronary artery diseases and type 2 diabetes Compared with the control group
- 4- The investigation of plasma visfatin levels and its expression in PBMCs of patients with cardiovascular diseases and its correlation with plasma levels of 25 Hydroxyvitamin D
- 5- The investigation of plasma PLTP levels and activity and its expression in PBMCs of patients with cardiovascular diseases and its correlation with plasma levels of 25-Hydroxyvitamin D
- 6- Evaluating Association of 25(OH) D3 Serum Level with Serum Level and Gene Expression of IL-32 in PBMCs of Subjects with Atherosclerosis and Control Group
- 7- Evaluating Association of TNF- $\alpha$  Serum Level with Serum Level and Gene Expression of LAMP-2 in PBMCs Subjects with Atherosclerosis and Control Group

- 8- Evaluating Association of 25(OH) D3 Serum Level with Gene Expression of FOXOP3 in PBMCs and Serum Level of IL-35 in Subjects with Atherosclerosis
- 9- Evaluating Association of IL-10 Serum Concentration with Gene Expression of NPC1 in PBMCs Subjects with Atherosclerosis and Control Group
- 10- The investigation effect of recombinant CTRP9 treatment on expression of miRs -155, -125, -33, -148, cytokines (TNF- $\alpha$ , IL-10, MCP-1) expression and secretion, ABCA1 expression in culture of Macrophages derivate from Coronary Artery Diseases (CAD) patients & Diabetic CAD in comparison to Control group
- 11- The investigation effect of recombinant CTRP9 and LPS treatment on expression of miRs -155, -146a, -21, -10a and cytokines (TNF- $\alpha$ , IL-6, MCP-1) expression and secretion in culture of PBMCs derivative from Coronary Artery Diseases (CAD) patients in comparison of Control group
- 12- Study of CTRP-9 levels and its correlation with ICAM-1 and VCAM-1 levels of patients with cardiac heart disease and type 2 diabetes and controls
- 13- The investigation serum levels of CTRP5 in patients with Coronary Artery Diseases (CAD) and Type 2 Diabetes (T2D) compared with the control group and it's correlation with inflammatory markers (MCP-1, TNF- $\alpha$  and IL-6).
- 14- Evaluating serum levels of Adipolin in coronary artery disease patients and its effect on cholesterol efflux from THP-1 foam macrophages.
- 15- Evaluating subfatin serum levels and its associations with inflammatory markers (TNF- $\alpha$  and IL-6) in patients with type2 diabetes, coronary artery disease and controls.
- 16- The investigation tissue expression and serum levels (pre & post treatment) of miRs -372, -101, -21, -133a and its correlation with tissue expression of EGFR signaling pathway genes in HNSCC patients compared with the control group.
- 17- Investigation the correlation of CTRP3 serum level with TGF-B1 gene and fibrotic miRs (-21, 433, 34a, 101,590-5p) expression in biopsy of IBD patients in comparison of control group.
- 18- Investigation the COX-2 and associated MicroRNAs gene expression in biopsy and serum of Refractory Heartburn patients in comparison of control group.
- 19- Investigation the methylation of genes in HSC activation and fibrosis in biopsy and serum of NAFLD patients in comparison of control group.
- 20- Investigation the ANGPTL3,4 levels of patients with Coronary Artery Diseases (CAD) and Type 2 Diabetes (T2D) compared with the control group and it's correlation with Insulin resistance
- 21- The investigation of CTRP-5 serum levels in patients with PCOS in comparison to control group and its correlation with insulin resistance
- 22- Evaluating serum concentration of cartonectin and C1q/TNF related protein-9 in women with gestational diabetes mellitus and control group and their correlation with inflammatory factors.



## Book

- Persian translation of Case File Biochemistry

## Background Skills and Technique

- Statistical analysis
- Cell culture
- Cholesterol efflux assay
- Western blot
- Real time-PCR
- ELISA
- PCR-RFLP
- Gel Electrophoresis
- Systematic Review and Meta-analysis