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Curriculum Vitae

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Reza Fadaei

PhD of Clinical Biochemistry
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Personal information

First Name: Reza

Last Name: Fadaei

Date of Birth: Oct 2, 1987

Place of Birth: Songor, Kermanshah, Iran

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Education

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

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 **Iran National Talents.**

Articles

1. Impaired HDL cholesterol efflux capacity in patients with non-alcoholic fatty liver disease is associated with subclinical atherosclerosis, **Reza Fadaei**, Hossein Poustchi, Reza Meshkani, Nariman Moradi, Taghi Golmohammadi, Shahin Merat, **Nature Scientific Reports**, 2018/8/3. doi: 10.1038/s41598-018-29639-5.
2. Decreased serum levels of CTRP12/adipolin in patients with coronary artery disease in relation to inflammatory cytokines and insulin resistance, **Reza Fadaei**, Nariman Moradi, Tooba Kazemi, Elham Chamani, Nahid Azdaki, Sayed Ali Moezibady, Shiva Shahmohamadnejad, Soudabeh Fallah, **Cytokine**, 2018/10/15, doi.org/10.1016/j.cyto.2018.09.019
3. 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. Maryam Dadmanesh, Hassan Aghajani, **Reza Fadaei***, Khodayar Ghorban, **PLoS ONE**, doi.org/10.1371/journal.pone.0204180
4. Serum Levels of Subfatin in Patients with Type 2 Diabetes Mellitus and its Association with Vascular Adhesion Molecules, **Reza Fadaei**, Maryam Dadmanesh, Nariman Moradi, Reza Ahmadi, Abolfazl Shokoohi Nahr-Khalaji, Hassan Aghajani, Khodayar Ghorban **archive of biochemistry and physiology** doi:10.1080/13813455.2018.1538248.
5. Parisa Shabani, Mehrnoosh Shanaki, Nariman Moradi, Reza Fadaei, Zahra Zandieh, "Akram Vatannejad,
6. Association of circulating CTRP9 with soluble adhesion molecules and inflammatory markers in patients with type 2 diabetes mellitus and coronary artery disease, Nariman Moradi, **Reza Fadaei**, Solaleh Emamgholipour, Elham Kazemian, Ghodratollah Panahi, Siamak Vahedi, Lotfolah Saed and Soudabeh Fallah, **PLoS ONE**, 13(1): e0192159. 2017 Jan 30
7. Survey of the Effect of Doxorubicin and Flavonoid Extract of White Morus Alba Leaf on Apoptosis Induction in A-172 GBM Cell Line. Sheyda Dabili, Soudabeh Fallah, Asie Shojaii, Ghodratollah Panahi, Mojdeh Aein, **Reza Fadaei** and Nariman Moradi, **archive of biochemistry and physiology**, 20 Feb 2018. Vol 124, No 1.
8. Association of atherogenic plasma index, apo B/apo A-I, paraxonase activity with carotid intima media thickness in patients with non-alcoholic fatty liver disease. **Reza Fadaei**, Reza Meshkani, Hossein Poustchi, Soudabeh Fallah, Nariman Moradi, Ghodratollah Panahi, Shahin Merat and Taghi Golmohammadi, **archive of biochemistry and physiology**. 1381-3455 (Print) 1744-4160 (Online), 2018 Jan 23.
9. Circulating levels of IL-35 and gene expression of FoxP3 in coronary artery disease: Is there any interplay between them and 25-hydroxvitamin D3? Hossein Shateri, **Reza Fadaei**, Mahdi Najafi, Akram Vatannejad, Mostafa Asadnia, Maryam Teimouri, Fatemeh Zali, Solaleh Emamgholipour, Eskandar Parvaz, Mahmood Doosti, **Clin Lab**, Accepted.
10. Lower expression of miR-10a in coronary artery disease and its association with pro/anti-inflammatory cytokines. Nariman Moradi, **Reza Fadaei**, Reza Ahmadi, Elham Kazemian, Soudabeh Fallah, **Clin Lab**, Accepted

11. miR-342-5p Expression Levels in Coronary Artery Disease Patients and its Association with Inflammatory Cytokines, Reza Ahmadi, Esfandiar Heidarian, **Reza Fadaei**, Nariman Moradi, Mojtaba Malek, Soudabeh Fallah. Clin Lab, Accepted.
12. Role of serum MMP-9 levels and vitamin D receptor polymorphisms in the susceptibility to coronary artery disease: an association study in Iranian population. Nariman Moradi, **Reza Fadaei**, Reza Ahmadi, Milad Hajimirza Mohammad, Serveh Shahmohamadnejad, Masoumeh Tavakoli-Yaraki, Hassan Aghajani, Soudabeh Fallah. **Gene**. 2017 Jul 21
13. Association Between Two Common Polymorphisms of Vitamin D Binding Protein and the Risk of Coronary Artery Disease: A Case-Control Study. Shahriar Tarighi, Mahdi Najafi, Arash Hossein-Nezhad, Hamid Ghaedi, Reza Meshkani, Nariman Moradi, **Reza Fadaei**, Faranak Kazerouni, Mehrnoosh Shanaki. **Journal of Medical Biochemistry**. May 9, 2017
14. Lower circulating irisin is associated with nonalcoholic fatty liver disease and type 2 diabetes. Mehrnoosh Shanaki, Nariman Moradi, Solaleh Emamgholipour, **Reza Fadaei** and Hossein Poustchi. **Diabetes and Metabolic Syndrome: Clinical Research and Reviews**. March 30, 2017.
15. New Insights to the Mechanisms Underlying Atherosclerosis in Rheumatoid Arthritis. Mahdi Mahmoudi, Saeed Aslani, **Reza Fadaei**, Ahmad Reza Jamshidi. **International Journal of Rheumatic Diseases**. 2017
16. 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. **Reza Fadaei**, Nariman Moradi, Mehdi Baratchian, Hassan Aghajani, Mojtaba Malek, Ali Akbar Fazaeli, Soudabeh Fallah. **PLoS ONE**, 2016 11 (12), e0168773.
17. The Circulating CTRP13 in Type 2 Diabetes and Non-alcoholic Fatty Liver Patients. Mehrnoosh Shanaki, **Reza Fadaei**, Nariman Moradi, Solaleh Emamgholipour, Hossein Poustchi. **PLoS ONE**, December 9, 2016, 11(12): e0168082. doi:10.1371/journal.pone.0168082.
18. The mRNA Expression and Circulating Levels of Visfatin and Their Correlation with Coronary Artery Disease Severity and 25-Hydroxyvitamin D. **Reza Fadaei**, Eskandar Parvaz, Solaleh Emamgholipour, Nariman Moradi, Akram Vatannejad, Mahdi Najafi and Mahmoud Doosti. **Horm Metab Res** 2016; 48: 269–274.
19. Helicobacter pylori Infection is a Significant Factor Risk for Hyperhomocysteinemia in the Patients with Coronary Artery Disease. Soudabeh Fallah, Nariman Moradi, **Reza Fadaei**, Reza Ahmadi, Tabatabaei Azardokht, Morteza Seifi. **Braz. Arch. Biol. Technol.** v.59: e16150509, Jan/Dec 2016.
20. Helicobacter pylori infection and iron deficiency in patients with coronary artery disease. Soudabeh Fallah, Reza Ahmadi, Nariman Moradi, **Reza Fadaei**, Sayyed Hashem Sezavar, Morteza Seifi. **Cell. Mol. Biol.** 2016, 62 (8): 8-14.
21. Human colon cancer HT-29 cell death responses to doxorubicin and Morus Alba leaves flavonoid extract. Soudabeh Fallah, Alireza Karimi, Godratollah Panahi, Syavash Gerayesh Nejad, **Reza Fadaei**, Morteza Seifi. **Cell. Mol. Biol.** 2016, 62 (3): 72-77.

22. 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. Solaleh Emamgholipour, Nariman Moradi, Maani Beigy, Parisa Shabani, **Reza Fadaei**, Hossein Poustchi and Mahmood Doosti. **Diabetol Metab Syndr** (2015) 7:108 DOI 10.1186/s13098-015-0099-z.

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.

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- α 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- α , 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- α , 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- α 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- α 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-RLFP
- Gel Electrophoresis