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Assistant Professor

Department of Clinical Biochemistry

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Personal Information:

Gender: Female

Date of Birth: 1981-8-23

Marital Status: Married

Nationality: Iranian

Educational Records:

1. PhD, 2017, Clinical Biochemistry, Tehran University of Medical Sciences, Tehran, Iran.
2. MSc, 2011, Clinical Biochemistry, Tehran University of Medical Sciences, Tehran, Iran., Tehran, Iran.
3. BSc, 2003, Biology, Sabzevar Teacher Training University, Sabzevar, Iran.

Appointment:

Assistant Professor, Department of Biochemistry, Kerman University of Medical Sciences, 2017-Present

Professional Experiences:

1. Cell culture
2. DNA and RNA extraction
3. Gene delivery
4. PCR and RT-PCR
5. Promoter activity
6. Protein overexpression
7. SDS-PAGE
8. Western blotting
9. DNA methylation

Publications

1. Nasimian A, Taheripak G, Gorgani-Firuzjaee S, **Sadeghi A**, Meshkani R. Protein tyrosine phosphatase 1B (PTP1B) modulates palmitate-induced cytokine production in macrophage cells. *Inflammation Research*. 2013;62(2):239-46.
2. Vakili S, Ebrahimi SSS, **Sadeghi A**, Gorgani-Firuzjaee S, Beigy M, Pasalar P, et al. Hydrodynamic-based delivery of PTP1B shRNA reduces plasma glucose levels in diabetic mice. *Molecular medicine reports*. 2013;7(1):211-6.
3. Meshkani R, **Sadeghi A**, Taheripak G, Zarghooni M, Gerayesh-Nejad S, Bakhtiyari S. Rosiglitazone, a PPAR γ agonist, ameliorates palmitate-induced insulin resistance and apoptosis in skeletal muscle cells. *Cell biochemistry and function*. 2014;32(8):683-91.

4. Eshkiki ZS, Ghahremani MH, Shabani P, Firuzjaee SG, **Sadeghi A**, Ghanbarian H, et al. Protein tyrosine phosphatase 1B (PTP1B) is required for cardiac lineage differentiation of mouse embryonic stem cells. *Molecular and cellular biochemistry*. 2017;425(1-2):95-102.
5. **Sadeghi A**, Beigy M, Alizadeh S, Mazloom H, Vakili S, Ahmadi S, et al. Synergistic Effects of Ad-Libitum Low-Dose Fructose Drinking and Low-Dose Streptozotocin Treatment in Wistar Rats: A Mild Model of Type 2 Diabetes. *Acta Medica Iranica*. 2017;55(5):304.
6. **Sadeghi A**, Ebrahimi S, Sadat S, Golestani A, Meshkani R. Resveratrol Ameliorates Palmitate-Induced Inflammation in Skeletal Muscle Cells by Attenuating Oxidative Stress and JNK/NF- κ B Pathway in a SIRT1-Independent Mechanism. *Journal of cellular biochemistry*. 2017.
7. Fallah S, Hajihasan Z, **Sadeghi A**, 2017. Cytotoxicity Effects of Flavonoid Extract of *Morus alba* Leaves in Hela Cell Line. *Asian Journal of Biological Sciences*. 2017; 10: 72-79.
8. RostamiRad A, Ebrahimi SSS, **Sadeghi A**, Taghikhani M, Meshkani R. Palmitate-induced impairment of autophagy turnover leads to increased apoptosis and inflammation in peripheral blood mononuclear cells. *Immunobiology*. 2017.
9. **Sadeghi A**, Rostamirad A, Seyyedebrahimi S, Meshkani R. Curcumin ameliorates palmitate-induced inflammation in skeletal muscle cells by regulating JNK/NF- κ B pathway and ROS production. *Inflammopharmacology*. 2018 Apr 11:1-8.
10. Alizadeh S, Mazloom H, **Sadeghi A**, Emamgholipour S, Golestani A, Noorbakhsh F, Khoshnati Nikoo M, Meshkani R. Evidence for the link between defective autophagy and inflammation in peripheral blood mononuclear cells of type 2 diabetic patients. *Journal of physiology and biochemistry*. 2018 Apr 13:1-1
11. **Sadeghi A**, Shabani M, Alizadeh S, Meshkani R. Interplay between oxidative stress and autophagy function and its role in inflammatory cytokine expression induced by palmitate in skeletal muscle cells. *Cytokine*. 2020 Jan 1;125:154835.
12. Bastin AR, **Sadeghi A**, Abolhassani M, Doustimotlagh AH, Mohammadi A. Malvidin prevents lipopolysaccharide-induced oxidative stress and inflammation in human peripheral blood mononuclear cells. *IUBMB life*. 2020 Jul;72(7):1504-14.
13. **Sadeghi A**, Bastin AR, Ghahremani H, Doustimotlagh AH. The effects of rosmarinic acid on oxidative stress parameters and inflammatory cytokines in lipopolysaccharide-induced peripheral blood mononuclear cells. *Molecular biology reports*. 2020 May;47(5):3557-66.
14. **Sadeghi A**, Fadaei R, Moradi N, Fouani FZ, Roozbehkia M, Zandieh Z, Ansari Pour S, Vatannejad A, Doustimotlagh AH. Circulating levels of C1q/TNF- α -related protein 6 (CTRP6) in polycystic ovary syndrome. *IUBMB life*. 2020 Jul;72(7):1449-59.
15. Kheirollahi A, Teimouri M, Karimi M, Vatannejad A, Moradi N, Borumandnia N, **Sadeghi A (Corresponding author)**. Evaluation of lipid ratios and triglyceride-glucose index as risk markers of insulin resistance in Iranian polycystic ovary syndrome women. *Lipids in health and disease*. 2020 Dec;19:1-9.

16. Shabani M, **Sadeghi A**, Hosseini H, Teimouri M, Babaei Khorzoughi R, Pasalar P, Meshkani R. Resveratrol alleviates obesity-induced skeletal muscle inflammation via decreasing M1 macrophage polarization and increasing the regulatory T cell population. *Scientific reports*. 2020 Mar 2;10(1):3791.
17. Vatannejad A, Salimi F, Moradi N, Fouani FZ, Zandieh Z, Ansaripour S, **Sadeghi A (Corresponding author)**, Fadaei R. Evaluation of angiopoietin-like protein 3 (ANGPTL3) levels in polycystic ovary syndrome. *Life Sciences*. 2020 Dec 15;263:118595.
18. Bastin A, **Sadeghi A (corresponding author)**, Nematollahi MH, Abolhassani M, Mohammadi A, Akbari H. The effects of malvidin on oxidative stress parameters and inflammatory cytokines in LPS-induced human THP-1 cells. *Journal of Cellular Physiology*. 2021 Apr;236(4):2790-9.
19. Sadeghi H, Monazah E, Tavan A, Yousefzadeh G, Naderi M, **Sadeghi A**, Sedri N. Investigating the relationship between myocardial infarction and the ratio of glycated albumin to glycated hemoglobin in patients admitted to cardiac ward. *International Journal of Diabetes in Developing Countries*. 2021 Jun;41:307-13.
20. Abdi M, Pasbakhsh P, Shabani M, Nekoonam S, **Sadeghi A**, Fathi F, Abouzaripour M, Mohamed W, Zibara K, Kashani IR, Zendedel A. Metformin therapy attenuates pro-inflammatory microglia by inhibiting NF- κ B in cuprizone demyelinating mouse model of multiple sclerosis. *Neurotoxicity research*. 2021 Dec;39:1732-46.
21. Hozhabri Y, **Sadeghi A (corresponding author)**, Nazari-Robati M, Bahri F, Salimi F, Abolhassani M, Mohammadi A. Effects of trehalose on NFE2L2, catalase, and superoxide dismutase in the kidney of aged rats. *Molecular Biology Research Communications*. 2022 Mar;11(1):29.
22. Bastin AR, Nazari-Robati M, Sadeghi H, Doustimotlagh AH, **Sadeghi A (Corresponding author)**. Trehalose and N-acetyl cysteine alleviate inflammatory cytokine production and oxidative stress in LPS-stimulated human peripheral blood mononuclear cells. *Immunological Investigations*. 2022 May 19;51(4):963-79.
23. Norouzi A, Ziamajidi N, **Sadeghi A**, Nazari-Robati M. Protective Effect of Trehalose Against H₂O₂-induced Cytotoxicity and Oxidative Stress in PC-12 Cell Line and the Role of Heat Shock Protein-27. *Iranian Journal of Toxicology*. 2022 May 10;16(2):145-52.
24. Vatannejad A, Fadaei R, Salimi F, Fouani FZ, Habibi B, Shapourizadeh S, Eivazi S, Eivazi S, **Sadeghi A (Corresponding author)**, Moradi N. Plasma Complement C1q/tumor necrosis factor-related protein 15 concentration is associated with polycystic ovary syndrome. *Plos one*. 2022 Jun 14;17(6):e0263658.
25. Sheikhi Narani M, Vatannejad A, Kheirollahi A, Ershad Langeroudi F, Shokrpour S, Alizadeh S, **Sadeghi A**. Effects of L-serine on oxidative stress indices and histopathological changes of pancreas in streptozotocin-induced diabetic mice. *Scientific Journal of Kurdistan University of Medical Sciences*. 2023 Dec 10;28(5):1-2.

26. Rajizadeh MA, Aminizadeh AH, Esmaeilpour K, Bejeshk MA, **Sadeghi A**, Salimi F. Investigating the effects of Citrullus colocynthis on cognitive performance and anxiety-like behaviors in STZ-induced diabetic rats. *International Journal of Neuroscience*. 2023 Apr 3;133(4):343-55.
27. Bastin A, Teimouri M, Faramarz S, Shabani M, Doustimotlagh AH, **Sadeghi A (Corresponding author)**. In vitro and molecular docking analysis of quercetin as an anti-inflammatory and antioxidant. *Current Pharmaceutical Design*. 2023 Mar 1;29(11):883-91.
28. Izadi A, Soukhtanloo M, Mirzavi F, Jalili-Nik M, **Sadeghi A (Corresponding author)**. Alpha-Lipoic Acid, Auraptene, and Particularly Their Combination Prevent the Metastasis of U87 Human Glioblastoma Cells. *Evidence-Based Complementary and Alternative Medicine*. 2023;2023(1):8618575.
29. Bahrampour Juybari K, Rizwan K, Faramarz S, **Sadeghi A**, Amirkhosravi A, Hadi Nematollahi M, Mehrabani M. Carbon Quantum Dots as Multi-Purpose Nanomaterial in Stem Cell Therapy. *Chemistry & Biodiversity*. 2023 Apr;20(4):e202200721.
30. Izadi A, **Sadeghi A**, Jalili-Nik M, Mirzavi F, Afshari AR, Soukhtanloo M. Combination of alpha-lipoic acid and auraptene induces apoptosis and prevents proliferation of the human U-87 glioblastoma cells. *Revista Brasileira De Farmacognosia*. 2023 Dec;33(6):1177-86.
31. **Sadeghi A**, Niknam M, Momeni-Moghaddam MA, Shabani M, Aria H, Bastin A, Teimouri M, Meshkani R, Akbari H. Crosstalk between autophagy and insulin resistance: evidence from different tissues. *European Journal of Medical Research*. 2023 Oct 25;28(1):456.
32. Naghibi N, **Sadeghi A**, Movahedinia S, Rahimi Naiini M, Rajizadeh MA, Bahri F, Nazari-Robati M. Ellagic acid ameliorates aging-induced renal oxidative damage through upregulating SIRT1 and NRF2. *BMC complementary medicine and therapies*. 2023 Mar 10;23(1):77.
33. Shabani M, Hosseini H, Tajik MH, Meshkani R, **Sadeghi A (Corresponding author)**. Resveratrol relieves HFD-induced insulin resistance in skeletal muscle tissue through antioxidant capacity enhancement and the Nrf2-Keap1 signaling pathway. *Molecular Biology Reports*. 2024 Dec;51(1):516. Corresponding author
34. Yazdani AH, Keyfi F, Nahid S, Maleki M, Jalili-Nik M, Eshraghi P, Mashkani B, **Sadeghi A (Corresponding author)**. Identification of the Mutations Spectrum in the Fumarylacetoacetate Hydrolase Gene in Tyrosinemia Type 1 Patients in Northeastern Iran. *Biochemical Genetics*. 2025 Apr 16:1-5.

Presented & Published Abstracts in Congresses:

1. Parvaneh L, Mohammad Taghvaei N, **Sadeghi A**, Meshkani R, Foruzandeh Moghadam M, Golestani A, Larijani B, Taghikhani M. Oleate regulation of PTP1B expression is not at transcriptional level. Presented in the 12th Congress of Biochemistry and 4th International congress of Biochemistry and Molecular Biology. Mashad, Iran, (6-9 Sep. 2011).
2. Vakili S, Seyyed Ebrahimi S, Taheripak R, **Sadeghi S**, Meshkani R. Liver-specific knockdown of PTP1B decreases plasma glucose levels in diabetic mice. Presented in the 12th Congress of Biochemistry and 4th International congress of Biochemistry and Molecular Biology. Mashad, Iran, (6-9 Sep. 2011).
3. **Sadeghi A**, Parvaneh L, Taghvaei N, Bakhtiari S, Nasimian A, Vakili S, Meshkani R. Rosiglitazone effect on palmitate-induced insulin resistance is independent of PTP1B expression. Presented in the 12th Congress of Biochemistry and 4th International congress of Biochemistry and Molecular Biology. Mashad, Iran, (6-9 Sep. 2011).
4. **Sadeghi A**, Meshkani R. Palmitate-induced impairment of autophagy turnover leads to increased inflammation in skeletal muscle cells by regulating the oxidative stress process. Presented in the 15th Iranian National Congress of Biochemistry & 6th International Congress of Biochemistry and Molecular Biology. Isfahan, Iran, (25-28 Aug. 2018).
5. **Sadeghi A**, Bastin AR. Trehalose and N-Acetyl Cysteine alleviate inflammatory cytokines and oxidative stress in LPS-stimulated human peripheral blood mononuclear cells. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
6. Shabani M, Teimouri M, **Sadeghi A**, Hosseini H, Ghasemi S, Meshkani R. Protective features of Curcumin on obesity-induced skeletal muscular inflammation via modification of immune cells population. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
7. Bastin AR, **Sadeghi A**. The Effects of Malvidin on Oxidative Stress Parameters and Inflammatory Cytokines in LPS-induced Human THP-1 cells. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
8. Kheirollahi A, Vatannejad A, **Sadeghi A**. Correlation of TG to HDL-C Ratio with Insulin Resistance in Women with Polycystic Ovarian Syndrome. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).

9. Vatannejad A, Kheirollahi A, **Sadeghi A**. Elevation of Total Cholesterol to HDL-Cholesterol Ratio as an Indicator for Insulin Resistance in Women with Polycystic Ovarian Syndrome. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
10. **Sadeghi A**. Quercetin attenuates oxidative stress and inflammatory cytokines in Lipopolysaccharide -stimulated human peripheral blood mononuclear cells. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
11. Vatannejad A, **Sadeghi A**. Circulating levels of Angiopoietin-like protein 3 in polycystic ovary syndrome woman: a case-control study. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
12. **Sadeghi A**, Doustimotlagh AH, Bastin AR. The effects of rosmarinic acid on oxidative stress parameters and inflammatory cytokines in lipopolysaccharide-induced peripheral blood mononuclear cells. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
13. Bastin AR, **Sadeghi A**, Doustimotlagh AH, Mohammadi A. Malvidin prevents lipopolysaccharide-induced oxidative stress and inflammation in human peripheral blood mononuclear cells. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
14. Alizadeh S, Mazloom H, **Sadeghi A**, Emamgholipour S, Golestani A, Noorbakhsh F, Khoshnati Nikoo M, Meshkani R. Autophagic activity in peripheral blood mononuclear cells of type 2 diabetic patients compared with non-diabetic patients. Presented in 16th National and 7 Th International Congress of Biochemistry and Molecular Biology from. Tehran, Iran, (9-12 Nov, 2020).
15. Vatannejad A, Kheirollahi A, **Sadeghi A**. **Plasma levels of CTRP6 in various phenotypes of Iranian polycystic ovary syndrome women.** (2024) Presented in ISPEC 16th International Conference on Agriculture, Animal Science & Aural Development from. Konya, Turkey, (15-17 Nov, 2024).