

## CURRICULUM VITAE (May 2023)

### Personal Information

**First Name:** Fatemeh

**Surname:** Ramezani-Aliakbari

**Gender:** Female

**Date of Birth:** 22th May 1987

**Place of Birth:** Kermanshah

**Nationality:** Iranian

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### Current Position

- Assistant Professor of Physiology, Department of Physiology, Hamadan University of Medical Sciences, Hamadan, Iran

### Education

- PhD in Medical Physiology, School of medicine, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran, 2012- 2017
- MSc in Medical Physiology, School of medicine, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran, 2010-2012
- BSc in Nursing, School of Nursing and Midwifery, Kurdistan University of Medical Sciences, Kurdistan, Iran, 2005-2009

### Honours and Awards

- Honours Ph.D. candidate, Physiology Department, Ahvaz Jundishapur University of Medical Sciences, 2017.
- Award for Oral Presentation (The First National Congress of Modern Sciences and Diseases), 2016.
- Member of “Gifted Talent Office”, Kurdistan University of medical Sciences, 2005-2009.
- Member of “Gifted Talent Office”, Ahvaz Jundishapur University of Medical Sciences, 2012-2017.

## **Thesis**

- MSc thesis: Investigation of the effects of C-peptid and Nicotinamide alone and in combination on glucose and insulin levels in serum and pancreatic isolated islets in streptozotocin/nicotinamide- induced diabetic mice.
- Ph.D thesis: Effects of Gallic acid and Trimetazidine single and combined on ischemia-reperfusion injury, cardiac function and plasma level of MicroRNAs (24 &126) in diabetic rats.

## **Teaching**

- Medical physiology for undergraduate students including MD and BSc students in general and advance
- Physiology at Ahvaz Jundishapur University of Medical Sciences and Kermanshah University of Medical Sciences.

## **Skills**

- Animal experiences on laboratory models: Mice, Wistar and Sprague-Dawley rats.
- Animal model induction of diabetes (type 1 and type 2 diabetes), metabolic syndrome, aging, cardiac hypertrophy and arrhythmias (arrhythmias induced by Cacl2 and diabetes).
- Experimental surgery especially in isolated heart in laboratory animals.
- Laboratory experience in isolation of pancreatic islets.
- Laboratory experience in ELISA and hormone activity assay.
- Laboratory experience in molecular biology techniques including PCR and Real time PCR.
- Laboratory experience in EKG recording in rats (in vivo and in vitro studies).
- Statistical Analysis Software (Excel, Graph Pad Prism, SPSS).
- Reference Manager (EndNote, Mendeley).

## **Research Projects**

1. The effect of prostaglandins on stress-induced analgesia in rats. Hamadan University of Medical Sciences, Hamadan, Iran.
2. Evaluation of the effects of gallic acid combined with exercise on biochemical, histological and molecular changes (SERCA2a, Nrf2 and SIRT1) in heart tissue of aged male rats induced with D-galactose. Hamadan University of Medical Sciences, Hamadan, Iran.

3. Investigating the effects of vitamin D combined with exercise on the expression of Beclin 1, Bax, Bcl-2, Mfn1 and Mfn2 genes in the heart tissue of aged male laboratory rats. Hamadan University of Medical Sciences, Hamadan, Iran.
4. Investigating the effect of exercise and injection of estrogen, NaHS and plasma of young rats on the expression levels of TNF-alpha, SIRT-1 and miRNA-34 and histological changes and oxidative stress in the heart tissue of old ovariectomized rats. Hamadan University of Medical Sciences, Hamadan, Iran.
5. Determining the effects of diminazine on cardiac hypertrophy through mitochondrial biogenesis, mitophagy and apoptosis signaling pathways in levothyroxine-induced hyperthyroidism in male rats. Hamadan University of Medical Sciences, Hamadan, Iran.
6. Effect of gallic acid on expression of iNOS, eNOS, SERCA2, antioxidant capacity and inflammatory factors (tumor necrosis alpha and interleukin 6) in cardiac tissue of isoproterenol-induced hypertrophy of the rats (2019). Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah – Iran.
7. Effect of Naringin on cardiac function and expression of iNOS and SERCA2 genes in cardiac tissue of D-galactose-induced aging model in rats (2020). Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah – Iran.
8. Comparison of Myricitrin and vitamin E on metabolic indexes, histology of the liver and pancreas of D-galactose induced mouse aging model (2019). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
9. Effects of *Olea europaea* L fruit aqueous and hydro-alcoholic extracts on serum insulin, leptin and lipid profile in sucrose-induced metabolic syndrome rats (2017). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
10. Effects of Gallic acid and single and combined Trimetazidine on ischemia-reperfusion injury, cardiac function and blood plasma level of MicroRNAs (24 & 126) in diabetic rat (2017). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
11. Evaluation the anti-arrhythmic effect of hydroalcoholic extract of olive leaf (OLE) and forced exercise in rats (2017). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
12. Evaluation the effects of forced treadmill exercise and hydroalcoholic extract of olive leaf (OLE) on Electrophysiology of heart in rats (2017). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.

13. Evaluation of C- Peptide and Nicotinamide effects on serum levels of LH, FSH, testosterone and sperm count in male mouse nicotinamide-STZ model (2014). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
14. Investigation of the effect of c-peptide and nicotinamide alone and in combination on glucose and insulin levels in serum and pancreatic isolated islets in streptozotocin/nicotinamide- induced diabetes mice (2014). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.
15. Effect of *Boswellia serrata* on blood glucose, insulin, fasting insulin resistance index, fructose amine and lipid profile in type (II) diabetes patients (2014). Physiology Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.

## Papers

1. Farzaei MH, **Ramezani-Aliakbari F\***, Ramezani-Aliakbari M, Zarei M. Regulatory effects of trimetazidine in cardiac ischemia/reperfusion injury. *Naunyn-Schmiedeberg's archives of pharmacology*, 2023;1-14.
2. Bagheri Sh , Salehi I , **Ramezani-Aliakbari F** , Kourosh-Arami M , Komaki A .Neuroprotective effect of geraniol on neurological disorders: a review article. *Mol Biol Rep*. 2022 Nov;49(11):10865-10874.
3. Shackebaei D, Hesari M, Ramezani-Aliakbari S, Hoseinkhani Z, **Ramezani-Aliakbari F\***. Gallic acid protects against isoproterenol-induced cardiotoxicity in rats. *Human & experimental toxicology* 2022;41.
4. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. Trimetazidine increases plasma MicroRNA-24 and MicroRNA-126 levels and improves dyslipidemia, inflammation and hypotension in diabetic rats. *Iranian Journal of Pharmaceutical Research: IJPR* 19 (3), 248
5. Omidi M, Ahangarpour A, Khorsandi L, **Ramezani-AliAkbari F**. The antidiabetic and hepatoprotective effects of myricitrin on aged mice with D-galactose. *Gastroenterology and Hepatology from Bed to Bench* 13 (3), 247
6. Omidi M, Ahangarpour A, Khorsandi L, **Ramezani- Aliakbari F**. The antidiabetic and hepatoprotective effects of Myricitrin on aged mice with D-galactose. *Gastroenterology and Hepatology from Bed to Bench*. 2020; 13(3).
7. Shackebaei D, Kavyani N, Hesari M, Rezaei M, Safari Y, **Ramazani- Aliakbari F**. Viewpoints of basic science students about the affecting factors on class attendance and its correlation with their academic performance in kermanshah university of medical sciences (2018) *J Med Edu Dev*. 2020; 14(3): 220-228.

8. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. Protective effects of gallic acid on cardiac electrophysiology and arrhythmias during reperfusion in diabetes. *Iran J Basic Med Sci* 2019; 22:515-520.
9. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. The Effects of trimetazidine on QT-interval prolongation and cardiac hypertrophy in diabetic rats. *Arq Bras Cardiol* 2019; 112:173-178.
10. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. The beneficial effects of trimetazidine on reperfusion-induced arrhythmia in diabetic rats. *Exp Clin Endocrinol Diabetes*. 2019 ;127(5):320-325.
11. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. Gallic acid improves oxidative stress and inflammation through regulating MiRNAs expression in the blood of diabetic rats. *Acta Endocrinol (Buchar)*. 2019; 15(2): 187–194.
12. Javidanpour S, Dianat M, **Ramezani-Aliakbari F**, Sarkaki A. The effects of olive leaf extract and 28 days forced treadmill exercise on electrocardiographic parameters in rats. *J Res Med Sci* 2018;23:108.
13. Ahangarpour A, **Ramezani-Aliakbari F\***. Protective effects of Oleaeuropaea fruit extracts on metabolic disorders associated with sucrose-induced metabolic syndrome in rats. *Avicenna J Med Biochem*. 2018; 6(1):8-14.
14. **Ramezani-Aliakbari F**, Badavi M, Dianat M, Mard SA, Ahangarpour A. Effects of gallic acid on hemodynamic parameters and infarct size after ischemia-reperfusion in isolated rat hearts with alloxan-induced diabetes. *Biomed Pharmacother*. 2017; 96:612-618.
15. Ahangarpour A, **Ramezani Aliakbari F\***, Mohaghegh SM, Asadina E. Effects of Arctiumlappa aqueous extract on lipid profile and hepatic enzyme levels of sucrose-induced metabolic syndrome in female rats. *Brazilian Journal of Pharmaceutical Sciences*. 2016;52 (3).
16. Ahangarpour A, **Ramezani-Aliakbari F\***, Fathi Moghadam H. Effect of C-peptide alone or in combination with nicotinamide on insulin levels from pancreatic islets in mouse. *Malays J Med Sci*. 2016;23(1): 15–21.
17. Ahangarpour A, **Ramezani-Aliakbari F**, Fathi Moghadam H. Effect of C-peptide alone or in combination with nicotinamide on glucose and insulin levels in streptozotocin-nicotinamide-induced type 2 diabetic mice. *Malays J Med Sci*. 2014; 21:12-17.
18. Ahangarpour A, Heidari H, **Ramezani-Aliakbari F**, Pakmehr M, Shahbazian H, Ahmadi I, Mombeini Z, Babadi Hajani M. Effect of *Boswellia serrata* supplementation on blood lipid, hepatic enzymes and fructosamine levels in type2 diabetic patients. *J Diabetes Metab Disord*. 2014; 13: 29.

19. Ahangarpour A, Oroojan AA, **Ramezani-Aliakbari F**. Effects of C-peptide and nicotinamide on serum LH, FSH, testosterone levels and sperm count in nicotinamide/streptozotocin-induced-diabetes in mice. *Acta Endo (Buc)*. 2014; 10 (4), 588-594.
20. Ahangarpour A, **Ramezani-Aliakbari F**, Heidari H, Pakmehr M, Shahbazian H, Ahmadi I, Mombeini Z, Babadi Hajani M. The effect of *Boswellia serrata* on blood glucose, insulin level and insulin resistance in type 2 diabetic patients. *DMed*. 2013; 20 (6) :11-18.
21. Ahangarpour A, Mohaghegh M, Asadinia E, **Ramazani Aliakbari F**. Effect of *Arctium Lappa* root extract on glucose levels and insulin resistance in rats with high sucrose diet. *JSSU*. 2013; 21 (2) :179-188.

## Congress

1. Study of the effect of c-peptide alone and in combination with nicotinamide on glucose and insulin levels in streptozotocin/nicotinamide - induced type2 diabetes in mice. 21th Iranian Congress of Physiology and Pharmacology. 2013, Tabriz, Iran, (Poster Presentation).
2. Effects of C-peptide alone and in combination with nicotinamide on insulin level from pancreatic islets in mouse. The first national conference on microscopic studies. 2014, Shiraz, Iran (Poster Presentation).
3. Study of nicotinamide on glucose and insulin levels in streptozotocin/nicotinamide induced type2 diabetes in mice. 7th Student Research Congress 2015, Ahvaz, Iran (Poster Presentation).
4. Effect of C-peptide alone or in combination with nicotinamide on insulin levels from pancreatic islets in mouse. 7th Student Research Congress 2015, Ahvaz, Iran (Poster Presentation).
5. Effects of C-peptide and Nicotinamide on serum LH, FSH, testosterone levels and sperm count in nicotinamide/STZ induced diabetic mice. 7th Student Research Congress 2015, Ahvaz, Iran (Poster Presentation).
6. Effects of *Arctium lappa* aqueous extract on blood lipid and hepatic enzymes level rats with sucrose-induced insulin resistance. The 22th Congress of Physiology and Pharmacology , 2015, Kashan, Iran (Poster Presentation).
7. Effects of C-peptide and nicotinamide on serum LH, FSH, testosterone levels and sperm count in Nicotinamide/Streptozotocin induced diabetes in mice. International Congress of Reproduction, 2015, Tehran, Iran (Poster Presentation).
8. Effect of *Olea europaea* fruit extract on body weight, serum glucose, insulin, lipid profile, leptin, hepatic enzymes levels and insulin resistance in sucrose - induced metabolic syndrome rats. The first National Congress of Modern Sciences and Diseases and the Ninth Internal Congress of

Student Research Committees, 2016, Ahvaz, Iran (Oral Presentation).  
9. Gallic acid improves cardiovascular disorders by MicroRNA-24 and 126 and antioxidant effects in diabetes. The 23th Congress of Physiology and Pharmacology, 2017, Zahedan , Iran (Poster Presentation).

10. Gallic acid and MicroRNAs in cardiovascular disorders and diabetes. The 24th Congress of Physiology and Pharmacology, 2019, Tehran, Iran (Oral Presentation).

## **Workshops**

- Workshop of "EKG recording and Electrophysiology ", Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2010).
- Workshop of "Plagiarism", Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2012).
- Workshop of “Science direct”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2013).
- Workshop of “ELISA”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2014).
- Workshop of “Cell Culture”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2015).
- Workshop of “Immuno Histochemistry”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2015).
- Workshop of “Real Time PCR”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2017).
- Workshop of “Systematic review and meta-analysis”, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran (2017).

## References

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