

Researcher

Endocrine Physiology Research Center,
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Mahboubeh Ghanbari, M.Sc in Medical Physiology

Gender: Female

Date of Birth: 30th March 1980

Marriage status: Unmarried

Work address: No. 24, Parvaneh Street, Velenjak, Tehran, Iran.

Home Address: No. 19, Senobar 5, Shahid Soleymani, Shahrak Valiasr, Tehran, Iran.

Academic Qualifications

Thesis 2010 – 2012

Title: Acute and chronic effects of *Ferula persica* extract on blood pressure of normal and hypertensive rats. Thesis score = 19.90 (Scale on 0-20)

2009 – 2012

Semnan University of Medical Science, Semnan, Iran. M.Sc, Medical Physiology. GPA= 17.07 (Scale on 0-20), is considered as **A** in letter grade scale.

2001–2005

Babol University of Medical Sciences, Babol, Iran. B.Sc, Nursing. GPA=16.67 (Scale on 0-20) is considered as **B⁺** in letter grade scale.

Employment Situation

2008 (5 months)

Imam Khomeini Hospital Imaging Center,
Angiography ward, **as a nurse.**

2012-until now

Endocrine Physiology Research Center, Research
Institute for Endocrine, Sciences, Shahid Beheshti
University of Medical Sciences, **as a researcher.**

International Publication

1. Norouzirad R, **Ghanbari M**, Bahadoran Z, Abdolahifar MA, Rasouli N, Ghasemi A. Hyperoxia improves carbohydrate metabolism by browning of white adipocytes in obese type 2 diabetic rats. *Life sciences*, (2019). **Impact factor: 3.2**
2. Rahmani1. M, Jeddi. S, **Ghanbari. M**, Momenan AA, Azizi. F, Ghasemi. A. Reference values for serum lipid profiles in Iranian adults: Tehran Lipid and Glucose Study. *Archive of iranian medicine*, (2019). **Impact factor: 1.2**
3. Bagheripuor F, **Ghanbari, M**, Abbas Piryaeei, Asghar Ghasemi. Effects of fetal hypothyroidism on uterine smooth muscle contraction and structure of offspring rats. *Experimental physiology*, (2018). **Impact factor: 2.7**
4. H Gholami, S Jeddi, A Zadeh-Vakili, K Farrokhfall, F Rouhollah5, M Zarkesh, **M Ghanbari.**, A Ghasemi. Transient congenital hypothyroidism alters gene expression of glucose transporters and impairs glucose sensing apparatus in young and aged offspring rats. *Cellular Physiology and Biochemistry*, (2017). **Impact factor: 5.5**
5. **Ghanbari, M**, Ghasemi A., Maternal hypothyroidism: An overview of current experimental models, *Life sciences*, (2017). **Impact factor: 3.2**
6. Samadi R., **Ghanbari, M**, Shafiei B., Gheibi S., Azizi F., Ghasemi A., High dose of radioactive iodine per se has no effect on glucose metabolism in thyroidectomized rats, *Endocrine*, (2017). **Impact factor: 3.17**

7. **Ghanbari M.**, Bagheripour F., Piryaei A., Zahediasl S., Noroozzadeh M., Ghasemi A., Hemodynamic properties and arterial structure in male rat offspring with fetal hypothyroidism, *Gen Physiol Biophys*, (2016). **Impact factor: 1.47**
8. Jeddi S., Khalifi S., **Ghanbari M.**, Bageripour F., Ghasemi A., Effects of nitrate intake on myocardial ischemia-reperfusion injury in diabetic rats, *Arquivos brasileiros de cardiologia*, (2016). **Impact factor: 1.3**
9. Bagheripour F., Gharibzadeh S., **Ghanbari M.**, et al., Association between serum nitric oxide metabolites and thyroid hormones in a general population: Tehran Thyroid Study, *Endocrine research*, (2016). **Impact factor: 1.5**
10. **Ghanbari M.**, Jeddi S., Bagheripour F., Ghasemi A., The effect of maternal hypothyroidism on cardiac function and tolerance to ischemia-reperfusion injury in offspring male and female rats, *Journal of endocrinological investigation*, (2015) **Impact factor: 3.16**
11. Bagheripour F., **Ghanbari M.**, Zahediasl S., Ghasemi A., Comparison of the effects of fetal hypothyroidism on glucose tolerance in male and female rat offspring, *The Journal of Physiological Sciences*, (2015). **Impact factor: 2.75**
12. Khalifi S., Rahimipour A., Jeddi S., **Ghanbari M.**, Kazerouni F., Ghasemi A., Dietary nitrate improves glucose tolerance and lipid profile in an animal model of hyperglycemia, *Nitric oxide*, (2015). **Impact factor: 4.37**

Layman's summary

1. **Ghanbari M.**, Ghasemi A. Does thyroid hormone deficiency in fetal life have adverse effects on cardiovascular system during adulthood? *Atlas of Science*. 2017, April 28.

National Publication

1. **Ghanbari M.**, Bagheripour F, Afghan M, Jeddi S, Ghasemi A: Reduction of maximum exercise capacity in adult male rats with fetal hypothyroidism. *Iranian Journal of Physiology and Pharmacology* 2015 1 (1), 36-42.

2. Jeddi S, Khalifi S, Zaman J, **Ghanbari M**, Ghhasemi A: Effect of Oral Nitrate Administration on Myocardial Injury in Type 2 Diabetic Rats. **Iranian Journal of Endocrinology and Metabolism**. 2015, 17(2):129-137.
3. **Ghanbari M**, Zahedi Khorasani M, Vakili A: Acute and chronic effects of Ferula persica on blood pressure of hypertensive rats and its possible mechanism of action. **Journal of Medicinal Plants**. 2012, 3(43):62-68.
4. **Ghanbari M**, Zahedi Khorasani M, Vakili A, Sameni HR: Acute and chronic effects of aqueous Ferula persica extract on blood pressure of normotensive rats. **Koomesh** 2012, 14(1):104-108.

International Abstracts

1. **Mahboubeh Ghanbari**, Sajad jeddi, Reza Norouzirad, Fatemeh Bagheri puor, Asghar Ghasemi. The role of nitric oxide in reduced cardiac function and antioxidant capacity in male offspring with maternal hypothyroidism. 19-22 April, **2018, Seoul, Korea (South)**.
2. Fatemeh Bagheripuor, **Mahboubeh Ghanbari**, Asghar Ghasemi. Effects of fetal hypothyroidism on nitric oxide level in the ovary of adult offspring. The 6TH Seoul International Congress of Endocrinology and Metabolism. 19-22 April, **2018, Seoul, Korea (South)**.
3. **Mahboubeh Ghanbari**, Sajad Jeddi, Reza Norouzirad, Fatemeh Bagheripuor, Asghar Ghasemi Increase of cardiac nitric oxide contributes in reduced cardiac function in male rats with fetal hypothyroidism.2 international 23 Iranian congress of Physiology and Pharmacology, 15-18 February **2018, Chabahar, Iran**.
4. Fatemeh Bagheripuor, **Mahboubeh Ghanbari**, Asghar Ghasemi. Effects of fetal hypothyroidism on the uterine histology in offspring of rats. 2th international congress of physiology and pharmacology. 15-18 February, 2018, Chabahar, Iran.
5. Asghar Ghasemi, Sajad jeddi, Jalal Zaman, **Mahboubeh Ghanbari**. Thyroid hormone deficiency during fetal life decreases myocardial tolerance to ischemia reperfusion injury in aged rats: role of nitric oxide. 17th international congress of endocrinology 15th Annual meeting of Chinese society of endocrinology. **Beijing, China**. August 31- September 4, **(ICE.CSE) 2016**.

6. **Mahboubeh Ghanbari**, Fatemeh Bagheripuor, Abbas Piryaei, Saleh Zahediasl, Asghar Ghasemi. Changes in arterial structure and hemodynamic parameters of adult male rat with fetal hypothyroidism. 17th international congress of endocrinology 15th Annual meeting of Chinese society of endocrinology. **Beijing, China**. August 31- September 4, **(ICE.CSE) 2016**.
7. Ghasemi A, Jeddi S, Khalifi S, **Ghanbari M**, Rahimipour A, Kazerouni F. (2015): Effects of dietary nitrate on metabolic status and myocardial ischaemia-reperfusion injury in type 2 diabetic rats. Endocrine Abstracts, **Dublin Ireland**, 37 EP449 DOI:10.1530/endoabs.37.EP449.
8. **Mahboubeh Ghanbari**, Fatemeh Bagheripuor, Marjan Afghan , Sajad Jeddi. Attenuation of maximum exercise capacity in adult male offspring with fetal hypothyroidism in rats. 1ST International Congress of Physiology & Pharmacology, **2015, Kasha, Iran**.
9. Fatemeh Bagheripuor, **Mahboubeh Ghanbari**, Asghar Ghasemi. Effects of thyroid hormones deficiency during fetal life on uterine smooth muscle contraction in adult offspring females. 1ST International Congress of Physiology & Pharmacology. **Kashan, 2015, Iran**.
10. **Mahboubeh Ghanbari**, Sajjad Jeddi, Fatemeh Bagheripuor, Asghar Ghasemi. Decrease of cardiac function and tolerance to ischemia-reperfusion injury in adult male rats with fetal hypothyroidism. 10th International Congress of Endocrine Disorders. 22-24, October **2014, Tehran, Iran**.
11. Fatemeh Bagheripuor, Safoora Gharibzadeh, **Mahboubeh Ghanbari**, Atieh Amouzegar , Fereidoun Azizi, Asghar Ghasemi. Association between serum nitric oxide metabolites and thyroid hormones in a general population: Tehran Lipid and Glucose Study. 10th International Congress of Endocrine Disorders. 22-24, October **2014, Tehran, Iran**.
12. Saeedeh Khalifi, Sajjad Jeddi, **Mahboubeh Ghanbari**, Ali Rahimipour, Faranak Kazerouni, Asghar Ghasemi. Dietary Nitrate Improves Glucose Tolerance and Dyslipidemia in Type 2 Diabetic Rats. Tehran Lipid and Glucose Study. 10th International Congress of Endocrine Disorders. 22-24, October **2014, Tehran, Iran**.
13. **Mahboubeh Ghanbari**, Fatemeh Bagheri pour, Narges Karbalaei, Asghar Ghasemi, Saleh Zahediasl. The effect of fetal hypothyroidism on Sensitivity of the cardiovascular

system to phenylephrine of the offspring in male rats. 21st International Congress of Physiology & Pharmacology. 23-27, August **2013, Tabriz, Iran.**

14. Fatemeh Bagheri pour, **Mahboubeh Ghanbari**, Asghar Ghasemi, Saleh Zahediasl. Effects of thyroid hormones deficiency during fetal life on carbohydrate metabolism in adult offspring of female rat. 21st International Congress of Physiology & Pharmacology. 23-27, August **2013, Tabriz, Iran.**
15. Sajad Jeddi, Saeedeh khalifi, Ali rahimipour, **Mahboubeh Ghanbari**, Asghar Ghasemi. Cardioprotective effects of low-dose nitrate therapy in type 2 diabetic rats. 4th Congress of prevention and treatment of obesity, **2013 Tehran, Iran.**
16. Ghasemi A. Karbalaee N, Bagheripuor F. **Ghanbari M**, Faraji Shahrivar F, Zahedi Asl S, The effect of maternal hypothyroidism on blood pressure profile of the male offspring rats. 10th **ASIA and Oceania**, Thyroid Association Congress. **2012**, P-127.

Laboratory techniques

1. Work experience with laboratory rat and mice
2. Induction of hypertension by Goldblatt method in rat
3. Induction of global cardiac ischemia by langendorff method in rat
4. Measurement of cardiac parameters (LVDP, LVEDP, $\pm dp/dt$, HR) in isolated heart in rat
5. Measurement of hemodynamic parameters (SBP, DBP, HR, MAP) by invasive method and noninvasive method (SBP) in rat by power lab system
6. ECG-recording in rat
7. Femoral arterial and venous catheterization in rat
8. Thyroidectomy in rat
9. Tissue staining (hematoxylin, eosin and giemsa)
10. Nitric oxide measurement by Griess method

Other skills

1. Word software
2. Power point software

3. Excel software
4. SPSS software
5. Graph Pad Prism software
6. EndNote software
7. ImageJ software
8. writing article
9. Search skill

Awards & Grants

- Ranked **37th** in the National M.Sc. Entrance Exam of the public universities of Iran among **1271** students (konkooor).

Languages

- Persian: Native speaker
- English: Upper-Intermediate

Interest topics

- Study of the cardiovascular system
- Study of cellular mechanisms of cardiac ischemia reperfusion injury
- Study of fetal developmental diseases