



## CV (Curriculum Vitae)

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**Institute:** Isfahan University of Medical Sciences

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### Education

- PhD in Medical physiology, Department of Physiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2018-2023)  
Thesis title: Investigation of high-fat high-carbohydrate diet effects, with and without 4-phenylbutyric acid, on pancreatic Langerhans islets' Wfs1 expression and insulin content and secretion as well as metabolic disturbances induction in adult male rats.
- MSc. in Medical physiology, Department of Physiology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran (2015-2017)  
Thesis title: The effect of amygdala administration of CRH and psychological stresses on appetite and serum ghrelin levels in rats.
- BSc. in Anesthesiology, School of Paramedicine, Isfahan University of Medical Sciences, Isfahan, Iran (2011-2015).

<b>Relevant Work Experience</b>	<ul style="list-style-type: none"> <li>○ Member of executive committee of the workshop "Isolation of Langerhans islets from rat pancreas" at the Neurophysiology Research Center and Physiology Department of Shahid Beheshti University of Medical Sciences, 2023.</li> <li>○ Member of executive committee of the workshop "Induction of chronic stress Social defeat and investigation of spatial memory using Barnes Maze" at the Neurophysiology Research Center and Department of Physiology, Shahid Beheshti University of Medical Sciences, 2023.</li> <li>○ Reviewer in the journal of Advanced Biomedical Research, since 2023.</li> <li>○ Reviewer in the journal of Isfahan medical school, since 2023.</li> <li>○ Reviewer in the journal of Annals of Applied Sport Science, since 2022.</li> <li>○ Presentation in Nutrition, from the Laboratory Researches to Clinical Studies International Congress, Mashhad, 2017.</li> </ul>
<b>Professional Memberships &amp; Qualification</b>	<ul style="list-style-type: none"> <li>○ Iranian Society of Physiology and Pharmacology</li> </ul>
<b>Extra-Curricular Activities/ Interest</b>	<ul style="list-style-type: none"> <li>○ Working as an anesthesiologist in Operation and recovery room of hospital, Isfahan, Iran (2018).</li> <li>○ Membership in the executive committee of the virtual table of scientific cooperation between Shahid Beheshti University of Medical Sciences and China (2022).</li> </ul>
<b>Research</b>	<ul style="list-style-type: none"> <li>○ Investigating the effect of simultaneous use of pyridoxine and N-acetylcysteine on changes in the permeability of the intestinal epithelial barrier and damage to intestinal and liver tissues in an animal model of bile duct obstruction. مصوب دانشکده پزشکی دانشگاه علوم پزشکی اصفهان، 1402 (همکار)</li> <li>○ Investigating the effect of type 2 chloride channel agonist on the intestinal-pancreatic metabolic axis by examining the expression level of intestinal farnesoid X receptor (FXR), fibroblast growth factors 15/21 and metabolic indices in an animal model with metabolic syndrome. مصوب دانشکده پزشکی دانشگاه علوم پزشکی اصفهان، 1402 (همکار)</li> <li>○ Study the effect of hepatic oxidative stress induced by long term consumption of a high-fat diet on the hepatic content of insulin degrading enzyme in adult male rat: Evaluation of the possible modulatory effect of 4-phenylbutyric acid.</li> </ul>

	<p>مصوب مرکز تحقیقات نوروفیزیولوژی دانشگاه علوم پزشکی شهید بهشتی، 1401 (همکار)</p> <ul style="list-style-type: none"> <li>○ Evaluation of the effect of stress during pre-pregnancy, pregnancy and lactation periods on lipid profiles and inflammation of the hippocampus and the role of possible changes of these factors in anxiety, depression and spatial memory male rat offspring.</li> </ul> <p>مصوب مرکز تحقیقات نوروفیزیولوژی دانشگاه علوم پزشکی شهید بهشتی، 1401 (همکار)</p> <ul style="list-style-type: none"> <li>○ Investigation and comparison of the effect of high-fat high-carbohydrate diet on hippocampal inflammation and spatial memory and learning of adult male rats in two behavioral tests of Morris water maze and Barnes maze.</li> </ul> <p>مصوب دانشکده پزشکی دانشگاه علوم پزشکی شهید بهشتی، گرنت مقالات با IF بالاتر از 6، 1401 (مجری)</p> <ul style="list-style-type: none"> <li>○ Study the effect of chronic exposure to unpredictable stress, with and without receiving Royal Jelly, on oxidative stress markers, insulin secretion rate and spatial memory in adult male rats.</li> </ul> <p>مصوب دانشکده پزشکی دانشگاه علوم پزشکی شهید بهشتی، 1401 (همکار)</p> <ul style="list-style-type: none"> <li>○ Investigating the effect of endoplasmic reticulum stress induced by high-fat-high-carbohydrate diet, from infancy to adulthood, on the expression of WFS1 and the content and insulin secretion of pancreatic islets of Langerhans in male rats.</li> </ul> <p>مصوب دانشکده پزشکی دانشگاه علوم پزشکی شهید بهشتی، 1401 (مجری)</p> <ul style="list-style-type: none"> <li>○ Investigating the effect of high-fat-high-carbohydrate diet and 4-phenylbutyric acid drug on plasma and pancreatic PANDER levels of male Wistar rats.</li> </ul> <p>مصوب کمیته تحقیقات دانشجویی دانشگاه علوم پزشکی شهید بهشتی، 1400 (مجری اصلی)</p> <ul style="list-style-type: none"> <li>○ Investigating the interaction of CRH intra central amygdala injection and acute psychological stress on food intake and related hormones in rats.</li> </ul> <p>مصوب دانشکده پزشکی دانشگاه علوم پزشکی اصفهان، 1396 (همکار)</p>
<p><b>Grants &amp; Awards</b></p>	<ul style="list-style-type: none"> <li>○ Invitation to speak at “3<sup>rd</sup> International Conference on Food Technology &amp; Nutrition” at Hilton Paris Charles De Gaulle, Paris, France, July 17-19, 2023.</li> <li>○ Invitation to speak at “2<sup>nd</sup> World congress and Expo on Diabetes” at Vancouver, Canada, October 16-17, 2023.</li> <li>○ First ranked among PhD students at Shahid Beheshti University of Medical Sciences.</li> </ul>

**Presentations & Poster Sessions**  
(Bibliographic format)

- **Izadi MS**, Zardooz H. High fat-high fructose diet consumption from birth to adulthood cause pancreatic ER stress in male Wistar rats: 4-phenylbutyric acid restored the ER. *21<sup>th</sup> international congress of Endocrinology, Dubai, UAE, 1-3 March 2024.*
- **Izadi MS**, Zardooz H. Pancreatic oxidative stress is the result of high fat-fructose diet consumption from birth to adulthood in male Wistar rats: 4-phenylbutyric acid moderates this effect. *26<sup>th</sup> Iranian & 5<sup>th</sup> International Congress of Physiology and Pharmacology, FAOPS 11-13 October 2023, Semnan, Iran.*
- **Izadi MS**, Zardooz H. Investigating the effect of high-fat-fructose diet consumption from birth to adulthood on energy homeostasis indicators and thyroid hormones in male rats. *8<sup>th</sup> Iranian Congress of obesity, 18-23 January 2023, Tehran, Iran.*
- **Izadi MS**, Zardooz H. High-fat-fructose feeding from birth to adulthood impaired glucose tolerance and insulin secretion and content in rats. *International Diabetes Federation (IDF) 5-8 December 2022, Lisbon, Portugal.*
- **Izadi MS**, Radahmadi M, Ghasemi M, Rayatpour A. Impact of acute psychological stresses and CRH administration into PVN and CeA nuclei on food intake and serum leptin level in adult male rats. *24<sup>th</sup> Iranian & 3<sup>rd</sup> International Congress of Physiology and Pharmacology Autumn-Winter, 2019-2020, Tehran, Iran.*
- **Izadi MS**, Radahmadi M, Ghasemi M, Rayatpour A. The effects of different psychological stresses on serum leptin levels and body weight in adult male rats. *2<sup>nd</sup> International and 23<sup>rd</sup> Iranian Congress of Physiology and Pharmacology, 15-18 Feb 2018, Chabahar, Iran.*
- Rayatpour A, Radahmadi M, Ghasemi M, **Izadi MS**. Effect of repeated administration of CRH into the hypothalamic paraventricular and central amygdala nuclei on serum leptin levels and body weight in male rats. *2<sup>nd</sup> International and 23<sup>rd</sup> Iranian Congress of Physiology and Pharmacology, 15-18 Feb 2018, Chabahar, Iran.*
- **Izadi MS**, Radahmadi M, Ghasemi M, Rayatpour A. Effects of sub chronic social and isolation stresses on feeding behavior and nutritional biomarkers. *6<sup>th</sup> Basic and clinical neuroscience congress, December 20-22 2017, Tehran, Iran.*
- Rayatpour A, Radahmadi M, Ghasemi M, **Izadi MS**. Altered serum ghrelin and glucose levels following CRH administration

	<p>into hypothalamic paraventricular and central amygdala nuclei. <i>6<sup>th</sup> Basic and clinical neuroscience congress, December 20-22 2017, Tehran, Iran.</i></p> <ul style="list-style-type: none"> <li>○ <b>Izadi MS</b>, Radahmadi M, Ghasemi M, Rayatpour A. The effect of repeated administration of CRH into Hypothalamic Paraventricular and Central Amygdala nuclei on food intake in adult male rats. <i>Nutrition, from the Laboratory Researches to Clinical Studies International Congress, September 6-8, 2017, Mashhad, Iran.</i></li> <li>○ Rayatpour A, Radahmadi M, Ghasemi M, <b>Izadi MS</b>. Distinctive effects of two different types of sub chronic psychological stress on food intake in food deprived rats on food intake in food deprived rats. <i>Nutrition, from the Laboratory Researches to Clinical Studies International Congress, September 6-8, 2017, Mashhad, Iran.</i></li> </ul>
<p><b>Teaching Experience</b></p>	<ul style="list-style-type: none"> <li>○ تدریس واحد فیزیولوژی عمومی برای دانشجویان رشته پرستاری دانشکده پزشکی دانشگاه علوم پزشکی آزاد اسلامی تهران در نیم سال دوم تحصیلی 1401-1402.</li> <li>○ تدریس واحد فیزیولوژی عملی برای دانشجویان رشته پرستاری دانشکده پزشکی دانشگاه علوم پزشکی آزاد اسلامی تهران در نیم سال دوم تحصیلی 1401-1402.</li> <li>○ تدریس واحد فیزیولوژی احساس و ادراک برای دانشجویان رشته روانشناسی بالینی دانشکده پزشکی دانشگاه علوم پزشکی آزاد اسلامی تهران در نیم سال دوم تحصیلی 1401-1402.</li> <li>○ تدریس واحد مبانی فیزیولوژی جانوری برای دانشجویان رشته زیست شناسی سلولی - مولکولی دانشکده علوم نوین دانشگاه علوم پزشکی آزاد اسلامی تهران در نیم سال دوم تحصیلی 1401-1402.</li> <li>○ دستیار آموزشی واحد فیزیولوژی عملی برای دانشجویان رشته پزشکی دانشکده پزشکی دانشگاه علوم پزشکی شهید بهشتی در نیم سال اول تحصیلی 1401-1402.</li> <li>○ دستیار آموزشی واحد فیزیولوژی قلب و گردش خون برای دانشجویان رشته پزشکی سراسر کشور زیر نظر دانشگاه علوم پزشکی شهید بهشتی در تابستان سال تحصیلی 1401-1400.</li> <li>○ دستیار آموزشی واحد فیزیولوژی غدد درون ریز و متابولیسم برای دانشجویان رشته پزشکی سراسر کشور زیر نظر دانشگاه علوم پزشکی شهید بهشتی در تابستان سال تحصیلی 1401-1400.</li> <li>○ دستیار آموزشی واحد فیزیولوژی عملی برای دانشجویان رشته پزشکی دانشکده پزشکی دانشگاه علوم پزشکی شهید بهشتی در نیم سال دوم تحصیلی 1401-1400.</li> </ul>
<p><b>Publications:</b></p>	<ul style="list-style-type: none"> <li>○ Shahsavari P, <b>Izadi MS</b>, Salimi M, Binayi F, Hedayati M, Ghasemi R, Zardooz H. Royal jelly effect on chronic unpredictable stress-induced pancreatic oxidative and endoplasmic reticulum stress and insulin secretion impairment in adult male rats. In press.</li> </ul>

- Binayi F, Saeidi B, Farahani F, **Izadi MS**, Eskandari F, Azarkish F, Khodaghali F, Sahraei M, Ghasemi R, Zardooz H. Sustained feeding of a diet high in fat resulted in a decline in the liver's insulin-degrading enzyme levels in association with the induction of oxidative and endoplasmic reticulum stress in adult male rats: Evaluation of 4-phenylbutyric acid. *Heliyon*, volume 10, issue 12, e32804, June 30, 2024. <https://doi.org/10.1016/j.heliyon.2024.e32804>
- Rayatpour A, Radahmadi M, **Izadi MS**, Ghasemi M. Effects of sub-chronic CRH administration into the hypothalamic paraventricular and central amygdala nuclei in male rats with focus on food intake biomarkers. *Anais da Academia Brasileira de Ciências*. <https://doi.org/10.1590/0001-3765202320200221>
- **Izadi MS**, Eskandari F, Zardooz H. 4-phenylbutyric acid reduced the pancreatic-derived factor levels of plasma and pancreas along with the improvement of glucose and lipid homeostasis in young adult male rats fed on long-term high fat-fructose diet. *Physiology and pharmacology*, 2023 July; 27(2): 132-140. <http://dx.doi.org/10.52547/phypha.27.2.3>
- **Izadi MS**, Eskandari F, Binayi F, Salimi M, Rashidi FS, Hedayati M, Dargahi L, Ghanbarian H, Zardooz H. Oxidative and endoplasmic reticulum stress develop adverse metabolic effects due to the high-fat high-fructose diet consumption from birth to young adulthood. *Life Science* 2022 Sep 2; 120924. <https://doi.org/10.1016/j.lfs.2022.120924>
- **Izadi MS**, Radahmadi M. Overview of the central amygdala role in feeding behavior. *British Journal of Nutrition* 2022 Mar 28; 127(6):953960. <https://doi.org/10.1017/S0007114521002312>
- Radahmadi M, **Izadi MS**, Rayatpour A, Ghasemi M. Comparative Study of CRH Microinjections into PVN and CeA Nuclei on Food Intake, Ghrelin, Leptin, and Glucose Levels in Acute Stressed Rats. *Basic and Clinical Neuroscience* 2021 Jan 01; 12 (1):133- 148. <http://dx.doi.org/10.32598/bcn.12.1.2346>
- Ghasemi M, Mehranfard N, **Izadi MS**, Rayatpour A, Alaei H. Involvement of Cholinergic Pathway in Energy Homeostasis via Ventromedial Hypothalamic D2 Receptors. *Journal of Isfahan Medical School* 2019; 36(504): 1389 -1394. <https://doi.org/10.22122/jims.v36i504.9819>
- **Izadi MS**, Radahmadi M, Ghasemi M, Rayatpour A. The effects of sub chronic social and isolation stresses on learning

	<p>and memory trend in male rats. <i>Physiology and Pharmacology</i> 2018; 22 (2): 82 -91. <a href="http://ppj.phypha.ir/article-1-1365-en.html">http://ppj.phypha.ir/article-1-1365-en.html</a></p> <ul style="list-style-type: none"> <li>○ <b>Izadi MS</b>, Radahmadi M, Ghasemi M, Rayatpour A. Effects of Isolation and Social Sub chronic Stresses on Food Intake and Levels of Leptin, Ghrelin, and Glucose in Male Rats. <i>Advance Biomedical Research</i> 2018; 7:118. <a href="https://doi.org/10.4103/abr.abr_28_18">https://doi.org/10.4103/abr.abr_28_18</a></li> <li>○ Rayatpour A, Ghasemi M, Radahmadi M, <b>Izadi MS</b>. Effect of Intraparaventricular Administration of Corticotropin Releasing Hormone on Food Intake in Food-Deprived Rats. <i>Journal of Isfahan Medical School</i> 2017; 35(436): 770 -775. <a href="https://jims.mui.ac.ir/article_15286.html?lang=en">https://jims.mui.ac.ir/article_15286.html?lang=en</a></li> <li>○ <b>Izadi MS</b>, Radahmadi M, Ghasemi M, Rayatpour A. Effect of Repeated Administration of Corticotropin-Releasing Hormone (CRH) in Central Amygdala Nucleus on Feeding Behavior in Adult Male Rats. <i>Journal of Isfahan Medical School</i> 2017; 35(434): 707 -712. <a href="https://jims.mui.ac.ir/article_15275.html?lang=en">https://jims.mui.ac.ir/article_15275.html?lang=en</a></li> </ul>
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