Department of Pediatric, School of Medicine, Indiana University, Indianapolis, Indiana, US



mnemati@iu.edu Marmmar666@gmail.com marinmt6@gmail.com phisio 88@yahoo.com

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57193525376 Scholar: https://scholar.google.com/citations?hl=en&user=UOchCcEAAAAJ

Linkedin: https://www.linkedin.com/in/dr-mari-nemati-46915b166/ Researchgate: https://www.researchgate.net/profile/Marzieh-Nemati-4

PubMed: http://.ncbi.nlm.nih.gov/ sites/ myncbi/mari.nmt.1// collection/ 62347871/

public

Educations

PhD (Medical Physiology), Shiraz University of Medical Science, Iran (2015- 2020)

MSc (Medical Physiology), Shaheed Beheshti University of Medical Science, Tehran, Iran (2009-2012).

BSc (Nursing sciences), School of nursing, Bushehr University of medical sciences, Iran

ASc (anesthesia assistant), Paramedical school, urmia University of medical sciences, Iran

Job Skills

- Work in Endocrinology and Metabolism Research center as a senior Researcher (since 2020)
- Work in hospital as a supervisor (1 year)
- Work in hospital as a nurse (5 years)
- Work in hospital as an anesthetic assistance (4 years)

Teaching Experiences

- Teaching physiology for Nursing (BSc).
- Teaching physiology for Professional Health (BSc).
- Teaching physiology for Anesthesia assistant (BSc).
- Teaching physiology for Operation room assistant (BSc).
- Teaching physiology for Health information technology (BSc).
- Teaching physiology for Biotechnology (PhD).
- Lecturer in physiology laboratory for Doctor of dental.
- Lecturer in physiology laboratory for physiology (MSc)

Publications

1. High-fat diet effects on metabolic responses to chronic stress

M Nemati, H Zardooz, F Rostamkhani, A Abadi, F Foroughi. Archives of physiology and biochemistry, 2017: 123 (3),182-191

- 2. Platelet-rich plasma improves impaired glucose hemostasis, disrupted insulin secretion, and pancreatic oxidative stress in streptozotocin-induced diabetic rat M Zarin, N Karbalaei, S Keshtgar, M Nemati. Growth Factors, 2020:37 (5-6), 226-237
- 3. Assessment of Iranian nurses' knowledge and anxiety toward COVID-19 during the current outbreak in Iran. M Nemati, B Ebrahimi, F Nemati Arch Clin Infect Dis 15 (COVID-19), 2020: e102848

- 4. Improving effect of combined inorganic nitrate and nitric oxide synthase inhibitor on pancreatic oxidative stress and impaired insulin secretion in streptozotocin induced-diabetic rats. ZS Shahraki, N Karbalaei, M Nemati. Journal of Diabetes & Metabolic Disorders, 2020: 1-10
- 5. Effects of platelet-rich plasma on the pancreatic islet survival and function, islet transplantation outcome and pancreatic pdx_1 and insulin gene expression in streptozotocin induced-diabetic rats. M Nemati, N Karbalaei, P Mokarram, F Dehghani.Growth Factors, 2021: 1-15
- 6. Efficiency of Stem Cell (SC) Differentiation into Insulin-Producing Cells for Treating Diabetes: a Systematic Review. M Nemati, GH Ranjbar Omrani, B Ebrahimi, A Alizadeh. Stem Cells International, 2021
- 7. The Co-Transplantation of Pancreatic Islets Homogenate (PIH) improved survival and long-term efficacy of islet transplantation in STZ- diabetic rats Marzieh Nemati, Narges Karbalaei, Pooneh Mokarram, Farzaneh Dehghani, Sanaz Dastghaib, Zohre Aghaei. Experimental and clinical Transplantation Journal, 2022
- 8. The Beneficial Effects of Probiotics via Autophagy: A Systematic Review Marzieh Nemati, Gholamhossein Ranjbar Omrani, Bahareh Ebrahimi, Nima Montazeri-Najafabady. Biomed Research International, 2021
- 9. The Effects of Hydroalcoholic Calendula Officinalis Extract on Androgen-Induced Polycystic Ovary Syndrome Model in Female Rat. Fatemeh Gharanjik, Manzar Banoo Shojaefard, Narges Karbalaei, Marzieh Nemati. BioMed Research International, 2022
- 10. A Web- Based Cross Sectional Survey about the Iranian 2010 Novel Coronavirus (2019- ncov) Associated Stress and Knowledge. B Ebrahimi, M Molayem, M Nemati*. Arch Clin Infect Dis, 2022
- 11. The Efficiency of Stem Cells (SCs) Differentiation into Functional Hepatocytes for Treating Liver Disorders: A Systematic Review. Marzieh Nemati, Zahra Ebrahimi, Sareh Abolhassani, Fatemeh Nemati, Bahareh Ebrahimi*, Aliakbar Alizadeh*. BioMed Research International, 2023
- 12. Neuroprotective Effect of Wharton's Jelly-Derived Mesenchymal Stem Cell-Conditioned Medium (WJMSC-CM) on Diabetes-Associated Cognitive Impairment

- by Improving Oxidative Stress, Neuro inflammation, and Apoptosis. Zohre Aghaei, Narges Karbalaei, Mohammad Reza Namayar, Masoud Haghani, Mahboobeh Razmkhah, Mahdi Khorsand Ghaffari, Marzieh Nemati. Stem Cells International, 2023
- 13. The impact of anesthetic drug on hemodynamic parameters and neurological outcomes following temporal middle cerebral artery occlusion in rats. Maryam Naseh, Marzieh Nemati, Somayeh Keshavarz, Neuro Report Journal, 2023
- 14. Assessment of Knowledge, attitude and practices (KAP) towards COVID-19 and the risks of SARS-CoV-2 infection among the Iranian EMS workers: An online cross sectional survey. Bahareh Ebrahimi, MohamadAli Nazarinia, Mina Molayem, Mohammad Javad Jokar, Marzieh Nemati*. Air Medical Journal, 2023
- 15. In Vitro and In Vivo Improvement of Islet Quality and Transplantation Successes following Islet Treatment with Biomaterials in Diabetic Rats. Marzieh Nemati, Zahra Ebrahimi, Narges Karbalaei, Sanaz Dastghaib, Sara Khakshournia, Mojtaba Sargazi. Journal of Diabetes Research, 2023
- 16. The improving effects of the amnion and chorion membranes on tissue regeneration in periodontal disorders: A systematic review. Marzieh Nemati, Massoumeh Nowrouzi, Fatemeh Nemati, Aliakbar Alizadeh. Tissue and Cell Journal, 2023
- 17. Impact of antipsychotics and antidepressants drugs on long QT syndrome induction related to hERG channel dysfunction: A systematic review. Marzieh Nemati*, Zahra Hosseinzadeh, Fatemeh Nemati, Bahareh Ebrahimi, Biochemical and Biophysical Research Communications, 2023
- 18. The effect of intra-nasal co-treatment with insulin and growth factor-rich serum on behavioral defects, hippocampus oxidative-nitrosative stress, and histological changes induced by icv-STZ in a rat model. Mahdi Khorsand Ghafari, Ali Rafati, Narges Karbalaei, Masoud Haghani, Marzieh Nemati, Niloofar Sefati, Mohammad Reza Namavar, BMC Neurology, 2023
- 19. Combination therapy with platelet-rich plasma and epidermal neural crest stem cells increases treatment efficacy in vascular dementia. Somayeh Akbari, Masoud Haghani, Mojtaba Ghobadi, Etrat Hooshmandi, Afshin Borhani Haghighi, Mohammad

Saeid Salehi, Sareh Pandamooz, Negar Azarpira, Afsoon Afshari, Shahrbanoo Zabihi, Marzieh Nemati, Mahnaz Bayat. Stem Cell International, 2023

- 20. Probiotic ameliorate endocrine disorders via modulating inflammatory pathways: a systematic review. Marzieh Nemati, Bahareh Ebrahimi, Nima Montazeri-Najafabady*. Genes & Nutrition, 2024
- 21. Improvement effects of transplanting pancreatic islet that previously incubated with biomaterials on the diabetic nephropathy in STZ-diabetic rats. M Nemati, Z Hosseinzadeh, F Nemati, F Koohpeyma. BMC nephrology, 2024
- 22. Therapeutic potential of Lactobacillus casei and Chlorella vulgaris in high-fat diet-induced non-alcoholic fatty liver disease (NAFLD)-associated kidney damages: a stereological study. Haniyeh Keyghobadi, Hadis Bozorgpoursayadjani, Farhad Koohpeyma, Nazanin Mohammadipoor, Marzieh Nemati, Farshad Dehghani, Iman Jamhiri, Gholamhossein Keighobadi, Sanaz Dastghaib*, Molecular Biology Reports, 2024
- 23. Vitamin D supplementation affects bone marrow-derived mesenchymal stem cells differentiation into insulin-producing cells. Marzieh Nemati, Ali Akbar Alizadeh, Sanaz Dastghaib, Forugh Saki*. Molecular Biology Reports. 2024
- 24. Importance of Unfolded Protein Response Modulation on Diabetes Management: Systematic Review. Marzieh Nemati, Morvarid Siri, Bahareh Ebrahimi, Zahra Hosseinzadeh, Mina Molayem, Pooneh Mokarram, Sanaz Dastghaib*. Journal of Diabetes & Metabolic Disorders, 2024
- 25. Metabolic Responses to High-Fat Feeding and Chronic Psychological Stress Combination. Marzieh Nemati, Fatemeh Rostamkhani, Roxana Karbaschi, Homeira Zardooz*. Endocrinology, Diabetes & Metabolism. 2024

Book

The book chapter: beneficial effects of probiotics via autophagy of the book titled "Modulatory Effects of Probiotics on Endocrine Disorders via Autophagy"

Congress Presentation

Investigation of high -fat diet and chronic psychological stress interaction on energy balance in adult male rats. 12st international congress of Endocrine Disorders. Tehran-Iran, 2018.

Posters

- Effect of High fat diet on insulin secretion and resistance in response to chronic stress. First international and 21st Iranian congress of physiology and pharmacology. Tabriz- Iran, August 2013.
- Effect of High fat diet on insulin secretion and resistance in response to psychological stress. 2rd international and 23st Iranian congress of physiology and pharmacology. Chabahar- Iran, Feb 2018.
- Pancreatic islets homogenate (PIH) improves pancreatic islet survival, insulin secretion and islet transplantation outcome and glucose homeostasis in STZ- diabetic rats. 3rd international and 24st Iranian congress of physiology and pharmacology. Tehran- Iran.

Skills

- Making different animal models of type 2 diabetes, physical and psychological stress induction.
- Fixation and dissection of animal body
- Blood sampling from retro orbital, tail of rat and cardiac puncture
- Intra peritoneal glucose tolerance test
- Cannula implantation in common bile duct
- Pancreatic islet isolation
- Pancreatic Islet transplantation
- PRP preparation
- Isolation and culture of BMMSCs
- **ELISA**
- H&E staining

- Annexin & PI staining
- Histological studies of pancreas
- RT-PCR of pancreatic tissue for assaying genes expression
- Gel electrophoresis
- Image J software
- Microsoft OfficeTM tools

Research Interests

- 1. Endocrinology
- 2. Diabetes
- 3. Metabolic disorders
- 4. Obesity
- 5. Islet Transplantation
- 6. MSC Isolation & Culture

Attendance in Workshops

- Safety and protection in biomedical laboratories
- How to write a good paper?
- Endnote X7 Software
- **Principles of Preliminary SPSS**
- Principles of Advanced SPSS
- Critical Thinking BOLISM Research Principles
- English writing
- Principles of Real-Time PCR
- Isolation & Culture of Mesenchymal Stem Cells

References

- Dr. Narges Karbalaei, Shiraz University of Medical Sciences, Shiraz. Fars, Iran. karbalaei@sums.ac.ir
- Dr. Homeira Zardooz, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

homeira_zardooz@ yahoo.com, homeira_zardooz@sbmu.ac.ir
Dr. Maryam Moosavi, Shiraz University of Medical Sciences, Shiraz, Fars, Iran. mmoosavi2000@gmail.com
Dr. Seyed Mostafa Shid Moosavi, Shiraz University of Medical Sciences, Shiraz,
Fars, Iran.
mmoosavi@sums.ac.ir