

## Personal Details

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**Affiliation:** Shiraz Nephro-Urology Research Center,  
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## Education and Qualifications

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|-----------|---|
| 2001–2005 | <b>B. Sc. Biology</b> , Department of Biology, Faculty of Sciences, Tarbiat Moallem University, Tehran, Iran<br>(Grade Average Point: 16.43)  |
| 2006–2009 | <b>M. Sc. Physiology</b> , Department of Biology, Faculty of Sciences, Shahid Bahonar University of Kerman, Kerman, Iran<br>(Grade Average Point: 18.29)<br><b>Thesis title:</b> Preventive Effect of Garlic ( <i>Allium sativum</i> L.) on Serum Biochemical Factors and Histopathology of Pancreas and Liver in Streptozotocin-Induced Diabetic Rats<br>Supervisor: Dr. Ali Gol (Ph.D. in Medical Physiology)<br>Advisor: Dr. Shahrar Dabiri (M.D-Ph.D in Pathology)  |
| 2012–2018 | <b>Ph. D. Medical Physiology</b> , Department of Physiology, Faculty of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran<br>(Grade Average Point: 18.2)<br><b>Thesis title:</b> Investigation and comparison of the Effect of Vitamin D on Sex Steroid Hormones Production, Expression and Activity of Superoxide Dismutase and Glutathione Peroxidase, ROS Generation and Apoptosis in Granulosa Cells culture medium of Healthy Subjects and PCOS Patients<br>Supervisor: Dr. Sara Keshtgar (Ph.D. in Medical Physiology)<br>Advisors: Dr. Tahereh Talaei (Ph.D. in Anatomy) & Dr. Fatemeh Zal (Ph.D. in Biochemistry) |
| 2019–2022 | <b>MPH Health Policy</b> , Health Policy Research Center, Shiraz University of Medical Sciences, Shiraz, Iran   |

### Software skills

- International Computer Driving License (ICDL 1 & 2)
- Microsoft office, Adobe Photoshop, Adobe InDesign, SPSS, EndNote, GraphPad Prism, FlowJo, Cell Quest, Allele ID, Oligo, ABI 7500Real-time software, CASA System automatic sperm analyzer, Microplate software Gene 5™, STATA software (meta-analysis), Familiarity with software programming and web design, etc.

### Research Interests

- Sperm & Oocyte Interaction
- Polycystic Ovarian Syndrome
- Biological Fluid Research and Products
- Bioinformatics in Biomedical Research
- Male & Female Urology & Infertility
- Nephrology, dialysis, Transplantation, Immunology
- Reproductive Biology
- Endocrinology & Metabolism
- Cell culture and Tissue Engineering
- Stem cell and Related Studies
- Medicinal Plants Researches & Traditional Drugs Preparations

## Published or Accepted Papers

1. Karimi Z, Daryabor G, **Masjedi F**. Effects of conditioned media derived from human Wharton's jelly mesenchymal stem cells on diabetic nephropathy and hepatopathy via modulating TGF- $\beta$  and apelin signaling pathways in male rats. *BMC Endocrine Disorders*. 2024;24(1):6.
2. Janfeshan S, **Masjedi F**, Karimi Z. Protective effects of limb remote ischemic pre-conditioning on the heart injury induced by renal ischemic-reperfusion through the interaction of the apelin with the RAS/iNOS pathway. *Bioimpacts*. 2024;14(2): 27567.
3. Derakhshan Z, Bahmanpour S, Nasr-Esfahani MH, Masjedi F, Mirani M, Dara M, et al. Alpha-Lipoic Acid Ameliorates Impaired Steroidogenesis in Human Granulosa Cells Induced by Advanced Glycation End-Products. *Iranian Journal of Medical Sciences*. 2023: 10.30476/ijms.2023.99512.3168
4. Nekooeian M, Roozbeh J, Ezzatzadegan Jahromi S, Moaref A, **Masjedi F**. The superiority of bioimpedance vs. echocardiography and pitting edema in predicting automated office blood pressure in continuous ambulatory peritoneal dialysis patients. *Therapeutic Apheresis and Dialysis*. 2023.
5. Nekooeian M, Ezzatzadegan Jahromi S, **Masjedi F**, Schooli M, Shekouhi R, Moaref A. The significance of volume overload in the development of pulmonary arterial hypertension in continuous ambulatory peritoneal dialysis patients. *Therapeutic Apheresis and Dialysis*. 2023;27(4):760-70.
6. Mirani M, Bahmanpour S, **Masjedi F**, Derakhshan Z, Dara M, Nasr-Esfahani MH, et al. Pyridoxamine protects human granulosa cells against advanced glycation end-products-induced steroidogenesis disturbances. *Molecular Biology Reports*. 2023;50(10):8537-49.
7. **Masjedi F**, Karimi Z, Roozbeh J. # 5878 PROTECTIVE EFFECTS OF VITAMIN D ON HYPERANDROGENEMIA-INDUCED-ACUTE KIDNEY INJURY THROUGH THE INTERACTION WITH THE RAS/INOS PATHWAY. *Nephrology Dialysis Transplantation*. 2023;38(Supplement\_1):gfad063c\_5878.
8. Maleki S, Keshtgar S, Ebrahimi B, Matavos-Aramyan H, Karbalaeei N, **Masjedi F**. Effects of CatSper Stimulation and Inhibition by Progesterone and NNC on Human Sperm. *Andrologia*. 2023;2023.
9. Karimi Z, Ghahramani P, **Masjedi F**, Yavari V. Klotho plays a role in reno protective effect of allopurinol on renal ischemia-reperfusion injury. 2023.
10. Karimi F, Khodabandeh Z, Nazari F, Dara M, Masjedi F, Momeni-Moghaddam M. Post-Weaning Exposure to Sunset Yellow FCF Induces Changes in Testicular Tight and Gap Junctions in Rats: Protective Effects of Coenzyme Q10. *Reproductive Sciences*. 2023:1-11.
11. Kardeh S, **Masjedi F**, Faezi-Marian S, Shamsaeefar A, Jahromi MT, Pakfetrat M, et al., editors. An Atypical Course of Visceral Leishmaniasis After Kidney Transplantation: A Case Report From Iran. *Transplantation Proceedings*; 2023: Elsevier.
12. Jahromi MT, Roozbeh J, **Masjedi F**, Mohammadzadeh S, Tabei SS, Shafiee M, et al. Case report: A case of renal arcuate vein thrombosis successfully treated with direct oral anticoagulants. *Frontiers in Medicine*. 2023;10.
13. Forghani N, Karimi Z, Mokhtari M, Shariati M, **Masjedi F**. Association of Oxidative Stress with Kidney Injury in a Hyperandrogenemic Female Rat Model. *Iranian Journal of Medical Sciences* 2023.
14. Zomorodian SA, Shafiee M, Karimi Z, **Masjedi F**, Roshanshad A. Assessment of the relationship between 25-hydroxyvitamin D and albuminuria in type 2 diabetes mellitus. *BMC Endocrine Disorders* 2022;22:1-7.
15. Zahiri L, Malekmakan L, **Masjedi F**, Habibagahi Z, Habibagahi M. Association Between IL-17A, FOXP3, and CTLA4 Genes Expression and Severity of Lupus Nephritis. *Iranian Journal of Kidney Diseases* 2022;16:13-23.
16. Shahroodi JR, Jahromi MT, **Masjedi F**, Jalali GR, Rasaei N. POS-806 EVALUATING IL35 AND FOXP3 mRNA GENE EXPRESSION IN PERIPHERAL BLOOD OF THE PATIENTS WITH LONG-TERM

- RENAL GRAFT FUNCTION COMPARED TO ONES WITH EARLY ALLOGRAFT REJECTION. *Kidney International Reports* 2022;7:S346.
17. Rezaei M, Davani F, Alishahi M, **Masjedi F**. Updates in Immunocompatibility of Biomaterials: Applications for Regenerative Medicine. *Expert Review of Medical Devices* 2022.
  18. Pakfetrat Z, Janfeshan S, **Masjedi F**, Rafiei M, Karimi Z. Involvement of oxidative stress and toll-like receptor-4 signaling pathways in gentamicin-induced nephrotoxicity in male Sprague Dawley rats. *Drug and Chemical Toxicology* 2022;45:2568-75.
  19. Nekooeian M, Ezzatzadegan Jahromi S, **Masjedi F**, Schooli M, Shekouhi R, Moaref A. The significance of volume overload in the development of pulmonary arterial hypertension in continuous ambulatory peritoneal dialysis patients. *Therapeutic Apheresis and Dialysis* 2022.
  20. **MASJEDI F**, Shahroodi JR, Faezi S, Jahromi SE, Karimi Z, Jalali GR. POS-639 PREVALENCE OF FRACTURE AND ASSOCIATED RISK FACTORS IN HEMODIALYSIS PATIENTS IN SHIRAZ HOSPITALS, 2013-2019: A MULTICENTER STUDY. *Kidney International Reports* 2022;7:S273-S4.
  21. **MASJEDI F**, Shafiee M, Zomorodian A, Karimi Z, Shahroodi JR. POS-344 PREDICTIVE VALUE OF 25-HYDROXYVITAMIN D IN THE PROGRESSION OF DIABETIC NEPHROPATHY IN PATIENTS WITH TYPE 2 DIABETES MELLITUS. *Kidney International Reports* 2022;7:S155.
  22. **Masjedi F**, Roozbeh J, Karimi Z, editors. MO279: VITAMIN D SUPPLEMENTATION ATTENUATES HYPERANDROGENEMIA-ASSOCIATED ACUTE KIDNEY INJURY IN FEMALE SPRAGUE-DAWLEY RATS. *Nephrology Dialysis Transplantation* 2022;37:gfac067. 78.
  23. Karimi Z, **Masjedi F**, Janfeshan S, Roozbeh J, editors. MO356: PROTECTIVE EFFECTS OF REMOTE ISCHEMIC PER-CONDITIONING AGAINST HEART INJURY INDUCED BY RENAL ISCHEMIC/REPERFUSION: THE ROLE OF APELIN. *Nephrology Dialysis Transplantation* 2022;37:gfac135. 011
  24. Karimi Z, **Masjedi F**, Doostkam A, Roozbeh J, Malekmakan L. Investigating the Association between Gender and Age Distribution with Severity of COVID-19: a Single-Center Study from Southern Iran. *Women's Health Bulletin* 2022.
  25. Haghpanah A, **Masjedi F**, Salehipour M, Hosseinpour A, Roozbeh J, Dehghani A. Is COVID-19 a risk factor for progression of benign prostatic hyperplasia and exacerbation of its related symptoms?: a systematic review. *Prostate Cancer and Prostatic Diseases* 2022;25:27-38.
  26. Haghpanah A, **Masjedi F**, Hosseinpour A, Dehghani A. Reply to De Nunzio, Franco, and Lombardo. *Prostate Cancer and Prostatic Diseases* 2022;25:129.
  27. Forghani N, Karimi Z, Mokhtari M, Shariati M, **Masjedi F**. Functional and histopathological kidney injury in hyperandrogenic female rats-a polycystic ovary animal model. *Medical Journal of Tabriz University of Medical Sciences* 2022.
  28. Doostkam A, Malekmakan L, Hosseinpour A, Janfeshan S, Roozbeh J, **Masjedi F**. Sialic acid: an attractive biomarker with promising biomedical applications. *Asian Biomedicine* 2022;16:153-67.
  29. Doostkam A, Hosseinpour A, Iravani K, Malekmakan L, Haghpanah A, **Masjedi F**, Karimi Z, Rouzbeh H, Roozbeh J. Coronavirus Disease 2019 and Hypertension: How Anti-Hypertensive Drugs Affect COVID-19 Medications and Vice Versa. *Current Drug Safety* 2022.
  30. **Masjedi F**, Roozbeh J, Karimi Z. MO469 POSSIBLE MECHANISMS OF THE SARS-COV-2-INDUCED AKI PROGRESSION TO CKD: A FORWARD-LOOKING PERSPECTIVE. *Nephrology Dialysis Transplantation* 2021;36:gfab090. 0031.
  31. Karimi Z, **Masjedi F**, Malekmakan L, Doostkam A, Roozbeh J, Ghahramani N. Potential Mechanisms of the SARS-CoV-2-induced AKI Progression to CKD: A Forward-Looking Perspective. *Iranian Journal of Kidney Diseases* 2021;15.
  32. Joukar MJ, **Masjedi F**, Hoseinpour F, Borhani Haghghi A. Association between Length of Emergency Department Stay with NIHSS and MRS among Patients with Acute Ischemic Stroke. *Journal of Vessels and*

Circulation 2021;2:18.-

33. **Masjedi F**, Keshtgar S, Zal F, Talaei-Khozani T, Sameti S, Fallahi S, Kazeroni M. Effects of vitamin D on steroidogenesis, reactive oxygen species production, and enzymatic antioxidant defense in human granulosa cells of normal and polycystic ovaries. *The Journal of steroid biochemistry and molecular biology* 2020;197:105521.
34. Haghpanah A, **Masjedi F**, Alborzi S, Hosseinpour A, Dehghani A, Malekmakan L, Roozbeh J. Potential mechanisms of SARS-CoV-2 action on male gonadal function and fertility: Current status and future prospects. *Andrologia* 2020;13883.
35. Mohammadi Mahdiabadi Hasani MH, **Masjedi F**, Khadivi F, Mohammadi S. The Protective Effect of Hydroalcoholic Extract of Green Tea (*Camellia sinensis* L.) on Anxiety Behaviors Induced with Chronic Noise Stress in Adult Male Wistar Rats. *Journal of Kerman University of Medical Sciences (JKMU)* 2019;26:260-70.
36. **Masjedi F**, Keshtgar S, Agah F, Karbalaeei N. Association Between Sex Steroids and Oxidative Status with Vitamin D Levels in Follicular Fluid of Non-obese PCOS and Healthy Women. *Journal of Reproduction & Infertility* 2019;20:132-42.
37. **Masjedi F**, Gol A, Dabiri S. Preventive effect of garlic (*Allium sativum* L.) on serum biochemical factors and histopathology of pancreas and liver in streptozotocin-induced diabetic rats. *Iranian journal of pharmaceutical research: IJPR* 2013;12:325.
38. Badreh F, Abbasnejad M, **Masjedi F**. The Effect of Ascorbic Acid Injection into the Nucleus Accumbens Shell on Food Intake and Body Weight in Male Rats. *Iranian Journal of Endocrinology and Metabolism* 2012;14:289-95.
39. **Masjedi F**, Gol A, Dabiri S. Preventive effect of garlic juice on food intake and serum levels of glucose, cholesterol and triglycerides in streptozotocin-induced diabetic rats. *Journal of Medicinal Plants* 2010;9:124-35.
40. **Masjedi F**, Gol A, Dabiri S, Javadi A. Preventive effect of garlic on histopathology of liver and markers of hepatic injury in streptozotocin-induced diabetic rats. *Iranian Journal of Endocrinology and Metabolism* 2009;11:433-41.
41. **Masjedi F**, Gol A, Dabiri S, Javadi A. Investigating the Preventive Effect of Garlic on Blood Glucose Levels and Histopathology of Pancreas in Streptozotocin-induced Diabetic Rats. *Physiology and Pharmacology* 2009;13:179-90.

### Published Books

**Masjedi F and Gol A, The Role of Oxidative Stress in the Induction, Progression, and Treatment of Leukemia (With emphasis on medicinal Plants and natural anticancer substances)**, Hormozgan University of Medical Sciences Press, September 2012, ISBN: 978-600-5610-72-7 ([www.hums.ac.ir](http://www.hums.ac.ir)) (collection & compilation book). (Selected Book in 6<sup>th</sup> Persian Gulf International Art & Culture Festival, 29 April 2016, Bandar Abbas, Hormozgan, Iran).

### National & International Congress & Symposium

1. 15<sup>th</sup> National & 3<sup>rd</sup> International Conference of Biology, 19-21 August 2008, University of Tehran, Tehran, Iran (Poster)
2. National Conference of Biology Students, 15-16 July 2009, Shahrekord University, Chaharmahal and Bakhtiari, Iran (Oral)
3. 19<sup>th</sup> Iranian Congress of Physiology and Pharmacology, 3-6 November 2009, Shahid Beheshti University of Medical Sciences, Tehran, Iran (Poster)
4. 16<sup>th</sup> National and 4<sup>th</sup> International Conference of Biology, 14-16 September 2010, Ferdowsi University of Mashhad, Mashhad, Iran (Poster)
5. 6<sup>th</sup> Graduate Research Conference in Tourism, Hospitality and Leisure, 24-29 April 2012, Fethiye, Turkey (Oral)
6. 3<sup>rd</sup> International Congress on Reproduction (ISERB & ICRHC: Twins Congress), 20-22 May 2017, Journal of Reproduction & Infertility. 2017;18(Supplement 2):101, Iran University of Medical Sciences, Tehran, Iran (Poster)
7. 23<sup>rd</sup> Iranian & 2<sup>nd</sup> International Congress of Physiology and Pharmacology, 15-18 February 2018, Chabahar, Iran (Oral)
8. 4<sup>th</sup> International Congress on Reproduction (ISERB), 24-27 April 2018, Journal of Reproduction & Infertility. 2018;19(Supplement):119, Iran University of Medical Sciences, Tehran, Iran (Poster)
9. Royan International Twin Congress, 19<sup>th</sup> Congress on Reproductive Biomedicine, 29-31 August 2018, Tehran, Iran (Poster)
10. Royan International Twin Congress, 20<sup>th</sup> Congress on Reproductive Biomedicine, 28-30 August 2019, Tehran, Iran (Oral)
11. 24<sup>th</sup> Iranian & 3<sup>rd</sup> International Congress of Physiology and Pharmacology, 30 October- 01 November 2019, Tehran, Iran (Poster)
12. 58<sup>th</sup> ERA-EDTA Congress, June 5-8, 2021, Berlin (Online Oral)
13. 25<sup>th</sup> Iranian & 4<sup>th</sup> International Congress of Physiology and Pharmacology, 20-22 Oct 2021, Tehran, Iran (Poster)
14. World Congress of Nephrology (WCN), February 24-27, 2022, Kuala Lumpur, Malaysia (Poster)
15. 59<sup>th</sup> ERA Congress, May 19-22, 2022, Paris (Online Oral)
16. Royan International Twin Congress, 23<sup>th</sup> Congress on Reproductive Biomedicine, 07-09 September 2022, Tehran, Iran (Oral)
17. 60<sup>th</sup> ERA Congress, June 15-18, 2023, Milan (Online Oral)
18. The 9th International Congress of the Iranian Society for Organ Transplantation (IRSOT 2023)

### Teaching & Work Experience

- Laboratory equipment, maintenance, and principles of work with them (12 hours)
- Teaching experience for five terms at Shiraz University of Medical Sciences (125 hours equivalent to 20 curriculum unit)
- Teaching experience for two terms at Shahid Bahonar University of Kerman (40 hours equivalent to 5 curriculum units)
- Conducting proposal writing, article writing, EndNote, and GraphPad Prism workshops for medical student