

# Curriculum Vitae

## **Personal Details:**

**Full Name:** zeinab karimi

**Degree:** Ph. D of physiology (Assistant Professor of Physiology)

**Affiliation:** Shiraz Nephro-Urology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

**Date of Birth:** 1979

**Nationality:** Iranian

**Gender:** Female

**Marital status:** married

**Postal Address:** Shiraz Nephro-Urology Research Center, Khallili Street, Shiraz, Iran

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## **Education History**

**B.Sc. (1375-1379)** Department of Nursing, Fasa University, Iran.

**M.Sc. (1383-1386)** Department of Physiology, Shiraz University of Medical Sciences, Iran.

**Ph.D. (1387-1394)** Department of Physiology, Shiraz University of Medical Sciences, Iran

## **Areas of study**

1. Ischemia/reperfusion-induced acute kidney injury and distant-organ dysfunction.
2. Isolated lung set up
3. Antidiuretic effect of thiazide-diuretics in Li-induced nephrogenic diabetes insipidus
- 4-Drug nephrotoxicity
- 5- remote organ effect of acute kidney injury

## **Software Skills**

Excel, Spss, Word, Power Point, Prism, Lab Chart Reader, End Note

## **Publications:**

1. Gholampour F, Roozbeh J, Janfeshan S, **Karimi Z**. Remote ischemic pre-conditioning protects against renal ischemia–reperfusion injury via suppressing gene expression of TLR4 and TNF- $\alpha$  in rat model. 2019;97(2):112-9.

2. Malekmakan L, **Karimi Z**, Mansourian A, Pakfetrat M, Roozbeh J, Rahimi Jaberij KJHI. Role of vitamin D in oxidative stress modulation in end-stage renal disease patients: A double-blind randomized clinical trial. 2020.
3. **Karimi Z**, Pakfetrat Z, Roozbeh J, Janfeshan SJ, Pharmacology E, Physiology. Toll-like receptor-2 mediates systemic inflammation in gentamicin-induced rat nephrotoxicity. 2020.
4. Fatemikia H, Seyedabadi M, **Karimi Z**, Tanha K, Assadi M, Tanha KJM, et al. Comparison of 99mTc-DMSA renal scintigraphy with biochemical and histopathological findings in animal models of acute kidney injury. 2017;434(1-2):163-9.
5. Yavari V, Roozbeh J, **Karimi Z**, Faghihi M, Radmehr R. the effect of pomegranate extract on inflammatory biomarkers and nutrition of hemodialysis patients. nephrology dialysis transplantation; 2017: oxford univ press great clarendon st, oxford ox2 6dp, england.
- 6- Sara hashemi, sahar janfeshan, Elias Kargar Abarghouei, **zeinab karimi**: Therapeutic effects of bone marrow mesenchymal stem cells via modulation of TLR2 and TLR4 on renal ischemia-reperfusion injury in male Sprague-Dawley rats *BioImpacts*. 2021.
- 7- Moosavi S.M.S. & **Karimi Z** (2014): Cooperative mechanisms involved in chronic antidiuretic response to bendroflumethiazide in rats with lithium-induced nephrogenic diabetes insipidus. *Acta Physiologica Hungarica*, (March) 101 (1): 88-102.
- 8-Ketabchi F., **Karimi Z**. & Moosavi S.M.S (2014): Sustained hypoxic pulmonary vasoconstriction in the isolated perfused rat lung: Effect of  $\alpha_1$ -adrenergic receptor agonist. *Iranian Journal of Medical Sciences*, (May) 39 (3): 275-281.
- 9-Fatemikia H , Ketabchi F, **Karimi Z**, Moosavi S.M.S (2015). Distant effects of unilateral renal ischemia/reperfusion on contralateral kidney but not lung in rats: the roles of ROS and iNOS. *Can J Physiol Pharmacol*. 2016 May; 94(5):477-87. doi: 10.1139/cjpp-2015-0285. Epub 2015 Nov 3.
- 10- **Karimi Z.**, Ketabchi F., Alebrahimdehkhordi N., Fatemikia H., Owji S.M. & Moosavi S.M.S (2016) Renal ischemia/reperfusion against nephrectomy for induction of acute lung injury in rats. *Renal Failure*: DOI 10.1080/0886022X.2016.1214149.
- 11- **Karimi Z.** Malekmakan L & Farshadi M (2016). The prevalence of pregnancy related acute renal failure in Asia: a systematic review, with manuscript number SJKDT\_148\_16, is acceptable for publication in Saudi Journal of Kidney Diseases and Transplantation.

**12-**Roozbeh J, Malekmakan L, Monavarian M, Daneshian A, **Karimi Z** (2016) Survival of kidney retransplantation in comparison with first kidney transplantation: accepted by clinical transplantation journal at 23-Apr-2016.

**13-** Roozbeh J, Malekmakan L \* , Tadayon T, **Karimi Z**. Alrashid A. One year follow up of kidney-transplanted patients who received Rabbit anti-thymocyte globulin. *Inte Jour of Pharmaceutical Resea.* 2019; 11:412-5

**14-**Doostkam A, Hosseinpour A, Irvani 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. *Curr Drug Saf.* **2023**;18(2):125-137. doi: 10.2174/1574886317666220405121319. PMID: 35382727

**15-**Forghani N, **Karimi Z\***, Mokhtari M, Shariati M, Masjedi F. Association of Oxidative Stress with Kidney Injury in a Hyperandrogenemic Female Rat Model. *Iran J Med Sci.* **2023** Mar;48(2):187-197. doi: 10.30476/IJMS.2022.93594.2497. PMID: 36895462; PMCID: PMC9989239.

**16-**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 Endocr Disord.* **2022** Jul 4;22(1):171. doi: 10.1186/s12902-022-01088-2. PMID: 35787282; PMCID: PMC9254534.

**17-**Hashemi SS, Janfeshan S, **Karimi Z**. Acute lung injury induced by acute uremia and renal ischemic-reperfusion injury: The role of toll-like receptors 2 and 4, and oxidative stress. *Iran J Basic Med Sci.* 2022 May;25(5):643-651. doi: 10.22038/IJBMS.2022.64025.14099. PMID: 35911649; PMCID: PMC9282739.

**18-**Renoprotective Effect of Fucoidan from Seaweed *Sargassum angustifolium* C. Agardh 1820 on Gentamicin-Induced Nephrotoxicity: From Marine Resources to Therapeutic Uses Khalil Pourkhalili , **Zeinab Karimi** , Mohammad Reza Farzaneh1 , Elham Ehsandoost , Mehdi Mohammadi , Mohammad Lotfipour and Zahra Akbari. *Jundishapur J Nat Pharm Prod.* **2022** May; 17(2):e119081. Published online 2021 November 16. doi: 10.5812/jjnpp.119081.

**19-**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 Chem Toxicol.* 2022 Nov;45(6):2568-2575. doi: 10.1080/01480545.2021.1977024. Epub 2021 Sep 19. PMID: 34538191.

**20-**Forghani N, **Karimi Z**, Mokhtari M, Shariati M, Masjedi F. Functional and histopathological kidney injury in hyperandrogenic female rats - a polycystic ovary animal model. *Med J Tabriz Uni Med Sciences.* 2022;44(1): 26-35. doi: 10.34172/mj.2022.011. Persian.

**21-Karimi Z**, Soukhaklari R, Malekmakan L, Esmaili Z, Moosavi M. The effect of nanomicellar curcuminoids on renal ischemia/reperfusion injury and the expressions of COX-2 and Na<sup>+</sup>/K<sup>+</sup>-ATPase in rat's kidney. *Physiol Pharmacol* 2022; 26 (4) :424-432.

**22-Karimi Z**, Pakfetrat Z, Roozbeh J, Janfeshan S. Toll-like receptor-2 mediates systemic inflammation in gentamicin-induced rat nephrotoxicity. *Clin Exp Pharmacol Physiol*. 2020 Sep;47(9):1584-1590. doi: 10.1111/1440-1681.13334. Epub 2020 Jun 7. PMID: 32384574.

**23-Gholampour F**, Mohammadi Z, **Karimi Z**, Owji SM. Protective effect of genistein in a rat model of ischemic acute kidney injury. *Gene*. 2020 Aug 30;753:144789. doi: 10.1016/j.gene.2020.144789. Epub 2020 May 19. PMID: 32442578.

**24- کریمی** فیروزه غلامپور ، جمشید روزبه، سحر جانفشان، لیلا ملک مکان، خجسته رحیمی جابری، **زینب**

اثر نقش حفاظتی پیش‌شرطی‌سازی ایسکمیک دوردست در آسیب حاد کلیه ناشی از ایسکمی خون‌رسانی مجدد از طریق مسیر سیگنالینگ TLR-4 و TNF-α در رت

### **Publications:**

Google scholar citations h-index: 9

Scopus citations h-index: 6

### **Presentations in congresses and seminars**

**1-Therapeutic effect of mesenchymal cells on acute kidney injury induced by bilateral ischemic reperfusion in rat. 3<sup>rd</sup> international and 8<sup>rd</sup> national burn congress, Feb.28<sup>th</sup>-March 1<sup>st</sup> 2019.**

**2- Therapeutic effect of mesenchymal cells in wound caused by burn. 3<sup>rd</sup> international and 8<sup>rd</sup> national burn congress, Feb.28<sup>th</sup>-March 1<sup>st</sup> 2019**

**3- Therapeutic effect of mesenchymal cells on acute lung injury induced by bilateral nephrectomy in rat. 3<sup>rd</sup> international and 8<sup>rd</sup> national burn congress, Feb.28<sup>th</sup>-March 1<sup>st</sup> 2019.**

**4-Remote limb ischemic preconditioning accelerates recovery of renal function following ischemia-reperfusion injury: the possible role of lactate as a mediator. 24<sup>th</sup> Iranian and 3<sup>rd</sup> international congress of physiology and pharmacology Shahed university, Tehran, Iran. 30 Oct-01Nov 2019**

**5-Efficacy of repetitive daily normobaric hyperoxia preconditioning against gentamicin-induced nephrotoxicity in rats. 24<sup>th</sup> Iranian and 3<sup>rd</sup> international congress of physiology and pharmacology Shahed university, Tehran, Iran. 30 Oct-01Nov 2019**

**6- The role of bone marrow mesenchymal stem cells in the expression of TLR2 and TLR4 in acute kidney injury induced by renal ischemia-reperfusion in rat. 24<sup>th</sup> Iranian and 3<sup>rd</sup> international congress of physiology and pharmacology Shahed university, Tehran, Iran. 30 Oct-01Nov 2019**

**7- Expression changes of TLR-2 and TLR-4 in gentamicin induced nephrotoxicity in rats. 24<sup>th</sup> Iranian and 3<sup>rd</sup> international congress of physiology and pharmacology Shahed university, Tehran, Iran. 30 Oct-01Nov 2019**

**8-Acute lung injury induced by acute kidney injury: impossible roles of Toll-Like Receptor 2 and 4. 18<sup>th</sup> international congress of nephrology, dialysis, and transplantation. October 21-24(Thursday-Sunday), 2021, Tehran,**

**9- Investigating oxidative stress-related mechanisms in hyperandrogenemia-associated kidney injury in female Sprague dawley rats. 25<sup>th</sup> Iranian & 4<sup>th</sup> international congress of physiology and pharmacology. Tehran, Iran, 20-22 October 2021.**

**10- Prevalence of fracture and associated risk factors in hemodialysis patients in shiraz hospitals, 2013-2019: a multicenter study. World Congress of Nephrology 2022, organized by the International Society of Nephrology (ISN) and hosted by the Asian Pacific Society of Nephrology and Malaysian Society of Nephrology. February 24-27, 2022.**

**11- Predictive value of 25-hydroxyvitamin D in the progression of diabetic nephropathy in patients with type 2 diabetes mellitus. World Congress of Nephrology 2022, organized by the International Society of Nephrology (ISN) and hosted by the Asian Pacific Society of Nephrology and Malaysian Society of Nephrology. February 24-27, 2022.**

**12- Protective effects of remote ischemic per-conditioning against heart injury induced by renal ischemic/reperfusion. 59<sup>th</sup> ERA Congress (May 19-22, 2022).**

**13-Vitamin d supplementation attenuates hyperandrogenemia-associated acute kidney injury in female sprague-dawley rats. 59<sup>th</sup> ERA Congress (May 19-22, 2022).**

**14-Renoprotective effect of mesenchymal stem cells transplantation in acute kidney injury induced by renal ischemia-reperfusion. The 9<sup>th</sup> International Congress of Iranian Society of Organ Transplantation (IRSOT). 2023**

**15-Klotho protein did not involve in the reno protective effect of remote ischemic preconditioning against renal ischemic-reperfusion. 5<sup>th</sup> International and 26<sup>th</sup> National Congress of Physiology and Pharmacology. Semnan, Iran, October: 11-13 2023**

**16- Protective Effects of Vitamin D on Hyperandrogenemia-Induced-Acute Kidney Injury Through the Interaction with The Ras/iNOS Pathway. 60<sup>th</sup> ERA congress (June 15-18, 2023)**

**17- Allopurinol alleviate renal ischemic reperfusion injury through the Klotho pathway. 5<sup>th</sup> International and 26<sup>th</sup> National Congress of Physiology and Pharmacology. Semnan, Iran, October: 11-13 2023**

## **Teaching & work Experience**

**Teaching physiology:** To B.Sc. student in health and laboratory Sciences, Nursing and operatory rom.