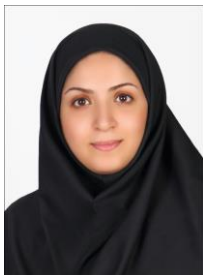


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#### **BRIEF BIOGRAPHY**

I was born on September, 22, 1982 in bushehr, Iran. I graduated from Hadis high school in bushehr, Iran in 2000 majors in experimental sciences. I finished my B.Sc. degree in Biology from Shiraz University in 2005. I received my M.Sc. degree in Physiology from Shiraz University in 2009. My PhD degree in medical physiology was from Tehran University of Medical Sciences in 2013.

#### **Education:**

**B. Sc.**, Biology, Shiraz University, Shiraz, Iran, 2005

**Period:** 2000-2005

**M. Sc.** physiology, Shiraz University, Shiraz, Iran, 2009.

**Period:** 2006-2009

#### **M. Sc. Thesis:**

“Effects of Extremely Low Frequency Electromagnetic Field on Liver Function Test and *Gstt1* Gene Expression of rats”

#### **PhD. Thesis**

“Evaluation of the protective effects of remote per-conditioning on the ischemia/reperfusion-induced acute kidney injury”

#### **Current Research Activities:**

- Evaluation of protective strategies to reduce ischemia/reperfusion-induced kidney injury

#### **Publications:**

- Hind limb per-conditioning renoprotection by modulation of inflammatory cytokines after renal ischemia/reperfusion.” **Zahra Sedaghat**, Mehri Kadkhodae, Behjat Seifi, Eisa Salehi (Renal Failure 2016)

- "Involvement of Neuronal Pathways in the Protective Effects of Hind Limb Preconditioning during Renal Ischemia." **Sedaghat Z**, Kadkhodae M, Seifi B et al. *Experimental and Therapeutic Medicine* (accepted for publication in Experimental and therapeutic medicine journal 2016)
- "Postconditioning is protective in renal reperfusion injury only in male rats. A gender difference study." Mahmoudi A, Kadkhodae M, Golab F, Najafi A, **Sedaghat Z**. *Acta Physiol Hung*. (2015) 102(1):67-76.
- "Current through fullerenes with calcium atom encapsulated." Vanaie H, Yaghobi M, Adel Asvar A, Heidari E, **Sedaghat Z**. *Japanese Journal of Applied Physics* (2015)
- "Inelastic effect of electron-phonon interactions in tunnelling magnetoresistance of a single metallofullerene." Vanaie HR, Yaghobi M, **Sedaghat Z**. *Mol Phys* (2015)
- "Reduction of hemorrhagic shock-induced acute kidney injury by lower limb ischemic preconditioning in rats." Ahghari P, Kadkhodae M, Seifi B, Ranjbaran M, **Sedaghat Z**, Shams S. *Physiol Pharmacol*. (2015)
- "Angiotensin II in paraventricular nucleus contributes to sympathoexcitation in renal ischemia-reperfusion injury by AT1 receptor and oxidative stress." Seifi B, Kadkhodae M, Bakhshi E, Ranjbaran M, Zahmatkesh M, **Sedaghat Z**, Ahghari P, Esmaili P. *J Surg Res*. (2015)
- "Effect of Losartan injection into paraventricular nucleus on the deleterious effects of angiotensin II in renal ischemia-reperfusion injury." Seifi B, Kadkhodae, Bakhshi E, Zahmatkesh M, Ranjbaran M, **Sedaghat Z**. *Physiology and Pharmacology*. (2014)
- "Hepatoprotective effects of remote preconditioning during renal ischemia." **Sedaghat Z**, Kadkhodae M, Seifi B, Ahghari P. *Bratislavske Lekarske Listy* (2014)
- "Novel renoprotection methods by local and remote conditioning" Kadkhodae M, **Sedaghat Z**. *Journal of Renal Injury Prevention*. (2014)
- "Effects of remote limb ischemic preconditioning on the pulmonary function tests and maximal oxygen uptake." Akbari Z, **Sedaghat Z**, Esmaili-Dehaj M, Nikseresht A, Karamean E, Zarei N, Keshavarzi A, Pourkhalili K. *Physiology and Pharmacology*. (2014)
- "Remote per-conditioning reduces oxidative stress, downregulates cyclo-oxygenase-2 expression and attenuates ischaemia-reperfusion-induced acute kidney injury". **Zahra Sedaghat**, Mehri Kadkhodae, Behjat Seifi, et al. *Clinical and Experimental Pharmacology and Physiology* (2013)
- "Evaluation of the gender difference in the protective effects of ischemic postconditioning on ischemia-reperfusion-induced acute kidney injury in rats". Mahmoudi A, Kadkhodae M, Golab F, Najafi A, **Sedaghat Z**, Ahghari P. *Tehran University Medical Journal*. (2013)

- "First report of the protective effect of remote per and postconditioning on ischemia/reperfusion-induced acute kidney injury". Mehri Kadkhodae, Behjat Seifi, Atefeh Najafi, Zahra Sedaghat. *Journal of Transplantation* (2011)

- "Effect of 50-Hz electromagnetic field on the gene expression of Glutathione S-transferase T1 (Gstt1)". Iraj Saadat, **Zahra Sedaghat**, Mina Afhami, et al. *int. journal of comparative clinical pathology*, (2009)

### **Presentation in conferences:**

- Early phase effects of hind limb per-conditioning on renal ischemia/reperfusion-induced acute kidney injury. Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi (22th Iranian congress of physiology and pharmacology, 2015, 7 Sep Kashan, Iran)

- Remote Perconditioning Attenuates Ischemia/Reperfusion-Induced Acute Kidney Injury via Cyclo-oxygenase-2 Down-regulation. Sedaghat Z, Kadkhodae M, Seifi B. (International congress of nephrology and urology, 2015, Jun 10-12 Tehran, Iran)

- Hind limb per-conditioning reduces kidney histological and functional injury-induced by renal ischemia reperfusion. Sedaghat Z, Kadkhodae M, Seifi B. (International congress of nephrology and urology, 2015, Jun 10-12 Tehran, Iran)

- Hind limbe per-conditioning protects the liver from renal ischemia and reperfusion injury Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, Hamidreza Vanaie. (IICBE INT conference, 2014 Jan 21-22 Phuket, Thailand)

- Electronic transport through endohedral molecular junction. Hamidreza Vanaie, Mojtaba Yaghoobi, Zahra Sedaghat (IICBE INT conference, 2014 Jan 21-22 Phuket, Thailand)

- Remote per-conditioning a new strategy to protect the kidney from ischemia/reperfusion injury evidenced by reduced urinary protein and creatinine. Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, Hamidreza Vanaie. (Urinomics conference, Caparica, Portugal, 9-11 september 2013)

- "Effect of hind limb perconditioning on the antioxidant system of rats subjected to renal ischemia and reperfusion" Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi (International congress of physiology and pharmacology, Tabriz, Iran 23-27 August 2013)

- Effect of Vitamin Supplementation in combination with Remote Per-conditioning on Renal Ischemia-Reperfusion Injury in Rats" Parisa Ahghari, Mehri Kadkhodae, Behjat Seifi, Zahra Sedaghat. (International congress of physiology and pharmacology, Tabriz, Iran 23-27 August 2013)

- "Evaluation of the gender difference in the protective effects of ischemic postconditioning on ischemia-reperfusion- induced acute kidney injury in rats" Atefeh Mahmoudi, Mehri

Kadkhodae, Fereshteh Golab, Atefeh Najafi, Zahra Sedaghat, Parisa Ahghari. (International congress of physiology and pharmacology, Tabriz, Iran 23-27 August 2013)

- Vitamin E supplementation has no benefit in combination with remote per-conditioning on renal ischemia-reperfusion injury". Parisa Ahghari, Mehri Kadkhodae, Behjat Seifi, Zahra Sedaghat. (MESOT, Dubai, 2012)

- Negative differential resistance in doped fullerenes molecular junction". Hamidreza Vanaie, Mojtaba yaghubi, Zahra Sedaghat. (Smart Surface, Dublin, Ireland, 6-9 march 2012).

- Evaluation of the protective effect of remote preconditioning on ischemia/ reperfusion-induced acute kidney injury". Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, et al. (20 th Iranian congress of physiology & pharmacology, Hamedan, Iran, October 10-14, 2011).

- "Gender difference in the protective effect of pretreatment with low dose lipopolysaccharide (LPS) on subsequent LPS-induced renal and hepatic injury". Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, Atefeh Najafi. (20 th Iranian congress of physiology & pharmacology, Hamedan, Iran, October 10-14, 2011).

- "Effect of 50 Hz EMF on Gsst1 gene expression of rats". Zahra Sedaghat, Mostafa Saadat, et al. (international congress of biochemistry and molecular biology, Tehran, Iran, november 16-19 (2009).

### **Research projects:**

- Evaluation of the recovery process of the kidney using <sup>99m</sup>Tc-DMSA in the animal model of renal ischemia/reperfusion injury (Bushehr University of Medical Sciences)

- Evaluation of the protective effects of Remote Perconditioning on ischemia/reperfusion-induced acute kidney injury in rats using a small animal SPECT imaging system (Bushehr University of Medical Sciences)

- Evaluation of the protective effects of remote preconditioning on ischemia and reperfusion- induced acute kidney injury in male rats (, Tehran University of medical Sciences)

- Evaluation of the gender difference in the protective effect of pretreatment with low dose lipopolysaccharide (LPS) on subsequent LPS-induced renal injury (number 15828, Tehran University of medical Sciences)

- Evaluation of the role of angiotensin II in paraventricular nucleus (PVN) in ischemia/ reperfusion- induced acute kidney injury in male rats (number 14871, Tehran University of medical Sciences)

- Spin-Dependent Transport through a  $M @ C_{59}X$  Molecular Bridge: The Role of Contacts  
(Islamic Azad University, Bushehr branch)

**Executive Committee members of Congresses:**

1- 11th International Congress of Immunology and Allergy of IRAN, 26-29 April, 2012

2- The first seminar of nanotechnology and their applications in medicine and science,  
Tehran, Iran, 1389/25/8

**Educational activities:**

- Teaching of renal physiology to the master students of biochemistry, toxicology,  
medical engineering and medical physics (1390-91)

- Teaching of renal physiology ,cell physiology, endocrine physiology and blood  
physiology to medical and dental students as well as B. Sc. Students of midwifery,  
nurses, . . . (1392-94)