

Curriculum Vitae (CV)

Name:	Hossein Fatemikia
Date of birth:	11 August 1988
Place of birth :	Bushehr, Iran
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Research IDs

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Academic Background

B.Sc. (2006-2010): Nursing, Bushehr University of Medical Sciences, Bushehr, Iran.

M.Sc. (2010-2013): Medical Physiology, Shiraz University of Medical Sciences, Shiraz, Iran.

Ph.D. (2017-2022): Medical Physiology, Shiraz University of Medical Sciences, Shiraz, Iran.

M.Sc Thesis Title : Distant effects of unilateral renal ischemia/reperfusion on contralateral kidney and lung in rats: The roles of ROS and iNOS. (**Advisor: Prof. Seyed Mostafa Shid-Moosavi**)

Ph.D Thesis Title : Roles of alpha-7 nicotinic acetylcholine and peroxisome proliferator activated-gama receptors in the presence or absence of spleen in rats subjected to acute lung injury induced by surfactant depletion. (**Advisor: Associate Prof. Farzaneh Ketabchi**)

Honors and Awards:

MSc excellent grade: Shiraz University of Medical Sciences, Shiraz, Iran (2013)

1st rank in PhD entrance exam in medical physiology (2017-2018)

PhD excellent grade: Shiraz University of Medical Sciences, Shiraz, Iran, (2021)

Research Interests:

Renal and respiratory physiology

Acute kidney injury

Acute respiratory distress syndrome

Cardiovascular toxicology

Publications:

1: Hossein Fatemikia, Farzaneh Ketabchi, Zynab Karimi, S. Mostafa Moosavi, Distant effects of unilateral renal ischemia/reperfusion on contralateral kidney but not lung in rats: the roles of ROS and iNOS. *Canadian Journal of Physiology and Pharmacology*, 2015 Nov, 94: 477–487.

2: Zynab Karimi, Farzaneh Ketabchi, Nasim Alebrahimdehkordi, **Hossein Fatemikia**, Seyed Mohammad Owji, and Seyed Mostafa Shid Moosavi, Renal ischaemia/reperfusion against nephrectomy for induction of acute lung injury in rats. *Renal Failure*, 2016 Aug, 3:1-13.

3: Kaveh Tanha, **Hossein Fatemikia**, Majid Assadi, Mohammad Seyedabadi, Assessment of the Maximum Uptake Time of ^{99m}Tc-DMSA in Renal Scintigraphy in Rat. *Iran J Nucl Med*, 2017, 25(2):110-114 .

4: Hossein Fatemikia, Mohammad Seyedabadi, Zynab Karimi, Kiarash Tanha, Majid Assadi, Kaveh Tanha, Comparison of ^{99m}Tc-DMSA renal scintigraphy with biochemical and histopathological findings in animal models of acute kidney injury, *Mol Cell Biochem*, 2017, 434:163–169.

5: Mehrzad bahtuee, **Hossein Fatemikia**, Khalil Pourkhalili, Euikyung Kim, Yaghoob Hassan, Ramin Seyedian, Saffron protection against pulmonary fibrosis induced via bleomycin injection in rats, *Iranian Journal of Toxicology*, 2017, (6): 7-12.

6: Khalil Pourkhalili, **Hossein Fatemikia**, Euikyung Kim, Navid Reza Mashayekhy, Naser Mohammadpour Dounighi, Abdollah Hajivandi, Yaghoob Hassan, Ramin Seyedian, Hemodynamic Changes in Experimentally Envenomed Rats by Intravenous Injection of Hemiscorpius lepturus Venom, *Arthropod-Borne Dis*, March 2018, 12(1): 31–40

7: Mehrzad bahtuee, **Hossein Fatemikia**, Ali Movahed, Abdolhamid Esmaili, Yaghoob Hassan, Mohammad Zarei, Ramin Seyedian, A Comparative Analysis of Saffron and Methylprednisolone on Bleomycin-Induced Pulmonary Fibrosis in Rats. *Iranian Journal of Toxicology*, 2018, (3): 9-13.

8: Ali Movahed, **Hossein Fatemikia**, Kaveh Tanha Abdolhamid Esmaili, Euikyung Kim, Nasser Mohammadpour Dounighi, Soodabeh Zendeboodi, Ramin Seyedian, Serological, histopathologic and scintigraphic assessment of *Hemiscorpius lepturus* effects on renal dysfunction in rats. *Iran J Basic Med Sci*, Dec 2018, Vol. 21, No. 12.

9: Soodabeh Zendeboodi, Abdolhamid Esmaili, Ali Movahed, **Hossein Fatemikia**, Ali Jamshidi, Matin Nazari, Hosein Heydari, Ramin Seyedian. The Attenuative Effects of Oral Resveratrol on Renal Changes Induced by Vanadium Injection in Rats. *J Renal Inj Prev*, 2019, 8(2): 127-132.

10: Z. Sedaghat, **H. Fatemikia**, K.Tanha, M. Assadi, M. Zahiri, B. Seifi, Kh. Pourkhalili. Evaluating the Recovery Process of Renal Ischemia/Reperfusion Injury in Rats Using Small-Animal SPECT. *Iran South Med J*, 2019, 22(2): 77-89.

11: Zahra Sedaghat, **Hossein Fatemikia**, Kaveh Tanha, Maria Zahiri, Majid Assadi. Scintigraphic evaluation of remote per-conditioning protection against unilateral renal ischemia/reperfusion injury in rats: a longitudinal study. *International urology and nephrology*, 2019, 51:2083–2089.

12: **Hossein Fatemikia**, Mostafa Kamyab, Ali Movahed, Mehdi Sadeghi, Euikyung Kim, Mahdi Behdani, Naser Mohammadpour Dounighi, Mehrnaz Shahrivar, Ramin Seyedian, A comparative study on the equine and camelid antivenoms upon cardiovascular changes induced with Hemiscorpius lepturus venom in rats. *Iran J Basic Med Sci*, 2019 Dec, 22(12): 1440–1444.

13: S Zaeri, **H Fatemikia**, M Kamyab, A Esmaili, E Kim, N Mohamadpour Dounighi, A Salemi, P Khadem, R Seyedian, Hemodynamic changes provoked with intravascular injection of the Echis carinatus venom in rats. *Archives of Razi Institute*, 2021, Vol. 76, No. 4.

14: R Seyedian, A Esmaili, H Ahmadzadeh, A Movahed, M Kamyab, **H Fatemikia**, E Kim, N Mohamadpour Dounighi, A Salemi, Experimental Evaluation of Mouse Hind Paw Edema Induced by Iranian Naja oxiana Venom. *Archives of Razi Institute*, 2021, 76 (1):139 -147.

15: **Hossein Fatemikia** , Amirreza Dehghanian, Bizhan Ziaian, Maryam Farokhipour and Farzaneh Ketabchi, Roles of alpha-7 nicotinic acetylcholine receptors and spleen in the lung injury induced by a repeated saline lavage in rat. *BMC Pulmonary Medicine*, 2022, 22:367.

Abstracts & Presentations:

1) Hossein Fatemikia, Seyed Mostafa Shid-Moosavi, Farzaneh Ketabchi, Zynab karimi, Unilateral renal ischemia/reperfusion affects contralateral kidney compensatory function via reactive oxygen species and inducible nitric oxide synthase in rats. *The 22th Iranian Congress of Physiology & Pharmacology, Khashan. (2015, Oral presentation)*

2) Hossein Fatemikia, Seyed Mostafa Shid-Moosavi , Farzaneh Ketabchi, Zynab karimi ,The distant effects of unilateral renal ischemia/reperfusion on contralateral kidney and lung in rats: the roles of reactive oxygen species and inducible nitric oxide synthase. *The First International Congress of Nephrology and Urology, Tehran. (2015, Oral presentation)*

3) Hossein Fatemikia, Zahra Sedaghat, Kaveh Tanha, Using small animal SPECT in the evaluation of recovery process of kidney in an animal model of ischemia/reperfusion Injury. *The Fifth International Congress of Iranian Society of Pediatric Nephrology, Shiraz. (2016, poster presentation)*

4) Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, **Hossein Fatemikia**, Remote per-conditioning reduces the oxidative stress in the renal ischemia/reperfusion injury: the short-time effect. *The Fifth International Congress of Iranian Society of Pediatric Nephrology, Shiraz. (2016, poster presentation)*

5) Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, **Hossein Fatemikia**, Down-regulation of tumor necrosis factor alpha (TNF- α) involves in the protective effect of remote per-conditioning during renal ischemia. *The Fifth International Congress of Iranian Society of Pediatric Nephrology, Shiraz. (2016 poster presentation)*

6) Hossein Fatemikia, Zahra Sedaghat, Kaveh Tanha, Maria Zahiri, Majid Assadi. Comparison of Tc-99m DMSA Static scintigraphy with histopathological findings in an experimental model of renal ischemia/reperfusion in rats. *The second International Congress of Nephrology and Urology, Tehran. (2016, poster presentation)*

- 7) Zahra Sedaghat, Mehri Kadkhodae, Behjat Seifi, **Hossein Fatemikia**, Attenuation of lung oxidative stress by remote preconditioning in the animal model of renal ischemia reperfusion injury. *The second International Congress of Nephrology and Urology, Tehran. (2016, poster presentation)*
- 8) Khalil pourkhalili, **Hossein Fatemikia**, Kaveh Tanha, Mohammad Reza Farzaneh, Zhara Akbari, Afshar Bargahi, Majid Assadi, Assessing kidney function following ischemia-reperfusion using ^{99m}Tc -DMSA renal scan and functional parameters:role of remote ischemic preconditioning. *The second International Congress of Nephrology and Urology, Tehran. (2016, Oral presentation)*
- 9) **Hossein Fatemikia**, Ramin Seyedian, Khalil pourkhalili, Neutralization effects of Iranian commercial antivenom on hemodynamic changes induced by intravascular injection of *Hemiscorpius lepturus* venom in rats. *The fifth international preventive cardiology congress, Shiraz. (2016, poster presentation)*
- 10) K Tanha, **H Fatemikia**, M Assadi, Determination of the Rat Kidney Uptake of ^{99m}Tc -DMSA Using the Quantitative Radionuclide Imaging and a Computational Method: A Comparison Study. *European Journal Of Nuclear Medicine And Molecular Imaging. (2017, poster presentation)*
- 11) K Tanha, **H Fatemikia**, M Seyedabadi, Z Karimi, M Assadi, Quantitative Analysis of ^{99m}Tc -DMSA Renal Scintigraphy of Animal AKI Models; Comparison with Histopathological and Biochemical Assays. *European Journal Of Nuclear Medicine And Molecular Imaging. (2017, poster presentation)*
- 12) Zahra sedaghat, **Hossein Fatemikia**, Kaveh Tanha Majjid Assadi, Using TC^{99m} -DMSA in the evaluation of hind limb per-conditioning protection on unilateral renal ischemia reperfusion injury in rat. *Congress of Nuclear Medicine and Molecular Imaging ,Mashhad. (2017, poster presentation)*
- 13) Zahra sedaghat, **Hossein Fatemikia**, Kaveh Tanha, Maria zahiri, Majjid Assadi, Comparison of scintigraphical findings with histopathological assessment in an animal model of kidney ischemia and reperfusion injury. *Congress of Nuclear Medicine and Molecular Imaging ,Mashhad. (2017, poster presentation)*
- 14) Kaveh Tanha, **Hossein Fatemikia**, Mohammad seyedabadi ,Kiarash tanha, Majjid Assadi, Comparison of histopathological and biochemical assays with the quantitative radionuclide imaging of animal AKI models. *Congress of Nuclear Medicine and Molecular Imaging ,Mashhad. (2017, poster presentation)*
- 15) Kaveh Tanha, Kiarash tanha, **Hossein Fatemikia**, Majjid Assadi, Quantitative assessment of the kidney uptake of ^{99m}Tc -DMSA in rat renal scan. *Congress of Nuclear Medicine and Molecular Imaging ,Mashhad. (2017, poster presentation)*
- 16) Kaveh Tanha, **Hossein Fatemikia**, Mohammad seyedabadi ,Majjid Assadi, evaluation of the maximum uptake time of the kidney in the TC^{99m} -DMSA rat renal scan. *Congress of Nuclear Medicine and Molecular Imaging ,Mashhad. (2017, poster presentation)*
- 17) **Hossein Fatemikia** ,Ramin Seyedian , Lactate dehydrogenase: a sensitive and feasible biomarker in pulmonary fibrosis induced by bleomycin in rats. *The 2nd International and 23rd Iranian Congress of Physiology and Pharmacology. (2018, poster presentation)*
- 18) Ramin Seyedian, **Hossein Fatemikia** , Naser Mohammadpour Dounighi, Hemodynamic Changes in Experimentally Envenomed Anaesthetized Rats by Intravenous Injection of *Hemiscorpius lepturus* Venom. *The 14th Iranian Congress Of Toxicology, Shiraz. (2018, poster presentation)*
- 19) Ramin Seyedian, **Hossein Fatemikia** , Mehrzad bahtouee, Naser Mohammadpour Dounighi, Saffron protection against Bleomycin induced pulmonary fibrosis in rats. *The 14th Iranian Congress Of Toxicology, Shiraz. (2018, poster presentation)*

20) Ramin Seyedian, **Hossein Fatemikia**, Kaveh Tanha, Serological, histopathologic and scintigraphic assessment of *Hemiscorpius lepturus* effects on renal dysfunction in rats. *4nd International Congress of Nephrology and Urology, Tehran. (2018, poster presentation)*

21) **Hossein Fatemikia**, Soodabeh Zendeboody, Ramin Seyedian, The Attenuative Effects of Oral Resveratrol on Renal Changes Induced by Vanadium Injection in Rats. *4nd International Congress of Nephrology and Urology, Tehran. (2018, poster presentation)*