

Personal Information

Name: Jalal
Surname: Hassanshahi
Date of Birth: December, 25th, 1987
Marital status: Married
City of Birth: Rafsanjan

Nationality: Iranian
Religion: Islam

Pre-University: Educated from Emam Ali High School.

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Academic Background

- 2018 to 2026 Department of Medical Physiology
Rafsanjan University of Medical Sciences -
Rafsanjan –Iran
Associate professor of Physiology.
- 2014 to 2018 Department of Medical Physiology
Isfahan University of Medical Sciences - Isfahan –
Iran
Ph.D. Degree in Medical Physiology.
- 2011 to 2013 Department of Medical Physiology
Tehran University of Medical Sciences - Tehran–
Iran
M.Sc. Degree in Medical Physiology.

- 2007 to 2011 Department of nursing
Kerman University of Medical Sciences, Faculty of Basic
Sciences – Kerman - Iran
B.Sc. Degree in nursing

M.S.c Thesis

- “Survey of the effect of Carvacrol on experimental model of 6-hydroxydopamine – induced parkinson,s disease in male rat: with emphasis on the role of estrogenic receptors and oxidative stress”, M.Sc Thesis,
Tehran University of Medical Sciences, Supervisor: Dr. T.Baluchnejadmojarad

Ph.D Thesis

- “Study of the Effect of Angiotensin II and Angiotensin 1-7 Receptors Antagonists on Renal Hemodynamic Parameters After Both Unilateral Ureteral Occlusion and Occlusion Removal in Male Wistar Rats”, Ph.D Thesis,
Isfahan University of Medical Sciences, Supervisor: Dr. M.Nematbakhsh

Publications [1-68]

1. Zamani M, Hassanshahi J, Soleimani M, Zamani F. Neuroprotective effect of olive oil in the hippocampus CA1 neurons following ischemia: Reperfusion in mice. *Journal of neurosciences in rural practice*. 2013;4(2):164.
2. Baluchnejadmojarad T, Hassanshahi J, Roghani M, Mansouri M, Raoufi S. Protective effect of carvedilol in 6-hydroxydopamine hemi-parkinsonian rat model. *Journal of Basic and Clinical Pathophysiology*. 2014;2(2):29-34.
3. Hassanshahi J, Maleki M, Nematbakhsh M. Renin-angiotensin system and unilateral ureteral obstruction. *Physiol Pharmacol*. 2017;21(4):266-78.
4. Azadbakht MK, Hassanshahi J, Nematbakhsh M. The role of angiotensin II infusion on the baroreflex sensitivity and renal function in intact and bilateral renal denervation rats. *Advanced Biomedical Research*. 2018;7(1):52.
5. Hassanshahi J, Maleki M, Nematbakhsh M. Renal blood flow and vascular resistance responses to angiotensin II in irreversible and reversible unilateral ureteral obstruction rats; the role of angiotensin II type 1 and 2 receptors. *Journal of nephropathology*. 2018;7(2).
6. Malek M, Hassanshahi J, Fartootzadeh R, Azizi F, Shahidani S. Nephrogenic acute respiratory distress syndrome: a narrative review on pathophysiology and treatment. *Chinese Journal of Traumatology*. 2018;21(1):4-10.
7. Hassanshahi J, Nematbakhsh M. The role of Mas receptor on renal hemodynamic responses to angiotensin 1-7 in both irreversible and reversible unilateral ureteral obstruction rats. *Advanced biomedical research*. 2018;7(1):12.
8. Samimi A, Hassanshahi J, Nematbakhsh M. The effect of AT 2 and Mas receptors antagonists on renal hemodynamic and excretory disorders induced by ischemia/reperfusion in male and female rats. *Physiology & Pharmacology*. 2018;22(2).
9. Maleki M, Hassanshahi J, Moslemi F. The role of vasodilator receptors of renin-angiotensin system on nitric oxide formation and kidney circulation after angiotensin II infusion in renal ischemia/reperfusion rats. *Advanced Biomedical Research*. 2018;7(1):25.
10. Amirteimoury M, Fatemi I, Hassanshahi J, Kaeidi A. Effect of metformin on morphine induced working memory defects in rats. *Iranian Journal of Physiology and Pharmacology*. 2019;3(2):123-17.

11. Fatemi I, Hadadianpour Z, Fatehi F, Shamsizadeh A, Hasanshahi J, Abbasifard M, et al. The role of locus coeruleus nucleus TRPV1 receptors in the development and expression of morphine dependence. *Iranian Journal of Basic Medical Sciences*. 2019;22(10):1186.
12. Zakeri M, Fatemi I, Kaeidi A, Zakeri MA, Hakimizadeh E, Hassanipour M, et al. Pro-neurocognitive and anti-sarcopenic benefits of one-year metformin therapy in ovariectomized aged mice. *Clinical and Experimental Pharmacology and Physiology*. 2019;46(12):1133-40.
13. Hakimizadeh E, Kaeidi A, Hassanshahi J, Shamsizadeh A, Allahtavakoli M, Rahmani MR, et al. Amelioration of cisplatin-induced liver toxicity through antioxidative properties of hydroalcoholic extract of pistachio nuts in mice. 2019.
14. Taghipour Z, Kaviani E, Kaeidi A, Shamsizadeh A, Hassanshahi J, Fatemi I. Atorvastatin attenuates D-galactose-induced hepatorenal toxicity in mice: an experimental study with histopathological evaluations. *Physiology and Pharmacology*. 2019;23(1):36-43.
15. Shibani F, Sahamsizadeh A, Fatemi I, Allahtavakoli M, Hasanshahi J, Rahmani M, et al. Effect of oleuropein on morphine-induced hippocampus neurotoxicity and memory impairments in rats. *Naunyn-Schmiedeberg's archives of pharmacology*. 2019;392(11):1383-91.
16. Hassanshahi E, Asadollahi Z, Azin H, Hassanshahi J, Hassanshahi A, Azin M. Cognitive function in multiple sclerosis patients based on age, gender, and education level. 2020.
17. Saffar S, Fatemi I, Rahmani M, Hassanshahi J, Pak HM, Kaeidi A. The Effect of Epigallocatechin gallate on Morphine Induced Working Memory Defects in Rats: An Experimental Study. 2020.
18. Saffar S, Fatemi I, Rahmani M, Hassanshahi J, Sahamsizadeh A, Allahtavakoli M, et al. The effect of epigallocatechin-3-gallate on morphine-induced memory impairments in rat: EGCG effects on morphine neurotoxicity. *Human & experimental toxicology*. 2020;39(7):994-1002.
19. Hassanshahi J, Mirzahosseini-Pourranjbar A, Hajializadeh Z, Kaeidi A. Anticancer and cytotoxic effects of troxerutin on HeLa cell line: an in-vitro model of cervical cancer. *Molecular biology reports*. 2020;47(8):6135-42.

20. Pak-Hashemi M, Hassanipour M, Kaeidi A, Saeed-Askari P, Fatemi I, Rahmani MR, et al. Effect of metformin on some cognitive functions in old rats. *Journal of Shahid Sadoughi University of Medical Sciences*. 2020.
21. Hassanshahi J, RAHMANI M, Shibani F, Kaeidi A. The Oleuropein Effect on Neurotrophic Factor Expression Level in Hippocampal Tissue and Memory Defect Induced by Morphine in Male Rats: An Experimental Study. 2020.
22. Hakimizadeh E, Hassanshahi J, Kaeidi A, Nematollahi MH, Taghipour Z, Rahmani M, et al. Ceftriaxone improves hepatorenal damages in mice subjected to D-galactose-induced aging. *Life Sciences*. 2020;258:118119.
23. Kaeidi A, Maleki M, Shamsizadeh A, Fatemi I, Hakimizadeh E, Hassanshahi J. The therapeutic approaches of renal recovery after relief of the unilateral ureteral obstruction: A comprehensive review. *Iranian journal of basic medical sciences*. 2020;23(11):1367.
24. Hakimizadeh E, Kaeidi A, Taghipour Z, Mehrzadi S, Allahtavakoli M, Shamsizadeh A, et al. Ceftriaxone improves senile neurocognition damages induced by D-galactose in mice. *Iranian Journal of Basic Medical Sciences*. 2020;23(3):368.
25. Kaeidi A, Rahmani M, Hassanshahi J. The protective effect of carvacrol and thymol as main polyphenolic compounds of thyme on some biologic systems in disease condition: A narrative review. *Journal of Rafsanjan University of Medical Sciences*. 2020;19(1):81-96.
26. Kaeidi A, Sahamsizadeh A, Allahtavakoli M, Fatemi I, Rahmani M, Hakimizadeh E, et al. The effect of oleuropein on unilateral ureteral obstruction induced-kidney injury in rats: the role of oxidative stress, inflammation and apoptosis. *Molecular biology reports*. 2020;47(2):1371-9.
27. Kaeidi A, Taghipour Z, Allahtavakoli M, Fatemi I, Hakimizadeh E, Hassanshahi J. Ameliorating effect of troxerutin in unilateral ureteral obstruction induced renal oxidative stress, inflammation, and apoptosis in male rats. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2020;393(5):879-88.
28. Mokhtari SS, Hakimizadeh E, Mohammadi MH, Kaeidi A, Fatemi I, Hassanipour M, et al. Effect of Ischemic Conditioning on Some Motor and Cognitive Factors in the Ovariectomy-Induced Aged Rats. *Journal of Shahid Sadoughi University of Medical Sciences*. 2020.
29. Mohammadi M, Mobini M, Mashayekhi F, Allahtavakoli M, Kaeidi A, Hassanshahi J, et al. Ischemic post-conditioning is neuroprotective even at delayed tPA

administration after embolic stroke in female rats. *Iranian Journal of Basic Medical Sciences*. 2021;24(12):1676.

30. Kaeidi A, Amirteimoury M, Zare M-S, Nazari A, Hakimizadeh E, Hassanshahi J, et al. Effects of valsartan on morphine tolerance and dependence in rats. *Research in Pharmaceutical Sciences*. 2021;16(3):286-93.

31. Hakimizadeh E, Kaeidi A, Hassanshahi J, Mehrbani M, Rahmani M. Ameliorating effect of pistachio hydroalcoholic extract on cisplatin-induced nephrotoxicity in mice. *Research Journal of Pharmacognosy*. 2021;8(1):73-9.

32. Hakimizadeh E, Kaeidi A, Rahmani M, Allahtavakoli M, Hassanshahi J. Protective Effect of Calcium Dobesilate Administration Against Hepatorenal Damage Induced By CCL4 In Male Mice. 2021.

33. Hakimizadeh E, Zamanian M, Giménez-Llort L, Sciorati C, Nikbakhtzadeh M, Kujawska M, et al. Calcium dobesilate reverses cognitive deficits and anxiety-like behaviors in the D-galactose-induced aging mouse model through modulation of oxidative stress. *Antioxidants*. 2021;10(5):649.

34. Hakimizadeh E, Zamanian M, Giménez-Llort L, Sciorati C, Nikbakhtzadeh M, Kujawska M, et al. Reversal of cognitive dysfunction and oxidative brain damage induced by chronic D-gal treatment in mice by Calcium dobesilate, a vasoactive and angioprotective drug with antioxidant properties. 2021.

35. Rahmani M, Kaeidi A, Hassanshahi J. The effect of left unilateral ureteral obstruction on contralateral renal antioxidant system changes in male rats: with an emphasis on the protective role of Oleuropein. 2021.

36. Sattai MS, Hakimizadeh E, Haj MM, Kaeidi A, Fatemi I, Hassanipour M, et al. Effect of Ischemic Conditioning on Some Motor and Cognitive Factors in the Ovariectomy-Induced Aged Rats. 2021.

37. Kaeidi A, Hassanshahi J. Increased Risk of Kidney Disorders in Patients with Coronavirus 2019: A Letter to the Editor. 2022.

38. Hakimizadeh E, Kaeidi A, Rahmani M, Allahtavakoli M, Hassanshahi J. Calcium dobesilate ameliorates hepatorenal injury induced by carbon tetrachloride in mice. *Iranian journal of basic medical sciences*. 2022;25(2):148.

39. Hakimizadeh E, Zamanian MY, Borisov VV, Giménez-Llort L, Ehsani V, Kaeidi A, et al. Gemfibrozil, a lipid-lowering drug, reduces anxiety, enhances memory, and improves brain oxidative stress in d-galactose-induced aging mice. *Fundamental & clinical pharmacology*. 2022;36(3):501-8.

40. Najafizadeh A, Kaeidi A, Rahmani M, Hakimizadeh E, Hassanshahi J. The protective effect of carvacrol on acetaminophen-induced renal damage in male rats. *Molecular biology reports*. 2022;49(3):1763-71.
41. Hassanshahi J. Vaccination in Patients with Kidney Disorders in the period of Corona Disease: Point of View. *Journal of Rafsanjan University of Medical Sciences*. 2022;21(4):478-80.
42. Hassanshahi J. Protective Effect of Pistacia Atlantica Against Renal Disorders. *Pistachio and Health Journal*. 2022;5(3):1-3.
43. Mozafari N, Hassanshahi J, Ostadebrahimi H, Shamsizadeh A, Ayoobi F, Hakimizadeh E, et al. Neuroprotective effect of Achillea millefolium aqueous extract against oxidative stress and apoptosis induced by chronic morphine in rat hippocampal CA1 neurons. *Acta neurobiologiae experimentalis*. 2022;82(2):179-86.
44. Hassanshahi J, Hajializadeh Z, Niknia S, Mahmoodi M, Kaeidi A. Anti-tumor effects of Thymus Caramanicus Jalas extract in mice through oxidative stress, inflammation and apoptosis. *Journal of pharmacy and pharmacology*. 2022;74(12):1797-804.
45. Karimi O, Hassanshahi J, Shamsizadeh A. The Role of Medicinal Plants in Treating Mild Cognitive Impairment: A Focus on Mitophagy Modulation. *Pathobiology Research*. 2022;25(4):0-.
46. Rahimi PN, Seyfi S, Hassanshahi J. Mebudipine as an Overlooked Cardioprotective Drug: A Review Study. 2023.
47. Petrudi NR, Seyfi S, Hassanshahi J. Mebudipine as an Overlooked Cardioprotective Drug: A Review Study. *Annals of Military and Health Sciences Research*. 2023;21(3).
48. Mohammadzadeh M, Shamsizadeh A, Memarzadeh MR, Hassanshahi J, Kaeidi A, Khademalhosseini M, et al. Effect of the Several Herbal Medicines Mixture on BMI and Lipid Profile-The Animal Study. *Iranian journal of diabetes and obesity*. 2024.
49. Moradi M, Hassanshahi J, Rahmani MR, Shamsizadeh A, Kaeidi A. Antiapoptotic and antinociceptive effects of Achillea millefolium L. aqueous extract in rats with experimental painful diabetic neuropathy. *Research in Pharmaceutical Sciences*. 2024;19(5):561-72.
50. Hakimizadeh E, Fatemi I, Hassanshahi J, Kaeidi A. Protective effects of pistachio hydroalcoholic extract on morphine-induced analgesic tolerance and dependence:

investigating the impact of oxidative stress. *Research in Pharmaceutical Sciences*. 2024;19(4):366-75.

51. Hassanshahi A, Kaeedi A, Rahmani MR, Hassanshahi J. The Effects of *Thymus Caramanicus* Jalas Extract and Its Main Constituent Carvacrol Against Cisplatin-Induced Nephrotoxicity in Mice. *Iranian Journal of Pharmaceutical Research: IJPR*. 2024;23(1):e140212.

52. Kaeidi A, Hassanshahi J. Levels of Oxidative Stress and Inflammation in the Right Kidney After Left Ureteral Obstruction in Male Rats Treated With Troxerutin: An Experimental Study. *Journal of Rafsanjan University of Medical Sciences*. 2024;22(12):1335-46.

53. Hassanshahi J. Challenges and Strategies of Chronic Kidney Disease Care in People with Type 2 Diabetes: A Point of View. *Journal of Rafsanjan University of Medical Sciences*. 2024;23(4):367-73.

54. Jamshidi HR, Lotfaliani MR, Ghorbani S, Hassanshahi J. *Achillea millefolium* L. Extract Attenuates the Nephrotoxicity Induced by Acetaminophen in Rats: *Achillea millefolium* attenuates acetaminophen nephrotoxicity. *Iranian Journal of Pharmaceutical Sciences*. 2024;20(4):363-72.

55. Tavakoli T, Taghizadeh kashani LM, Shirzad M, Memarzadeh MR, Shamsizadeh A, Kaeidi A, et al. Effect of a traditional herbal formulation (Azaraghi Majoon) on opium use disorder in male rats. *Advances in Traditional Medicine*. 2024;24(4):1215-27.

56. Jalal HJH, Kaeidi A, Hassanshahi J. A Review on the Relationship between Dental Pulp Calcification and Kidney Diseases. 2024.

57. Kaeidi A, Hassanshahi J. Neuroprotective role of oleuropein in post-myocardial infarction rats: targeting antioxidant, anti-inflammatory, and anti-apoptotic mechanisms. *European Journal of Pharmacology*. 2025:177936.

58. Mohammadzadeh M, Shamsizadeh A, Hassanshahi J, Kaeidi A, Shafiepour M-R. Effectiveness of Polyherbal Formulation on Obesity: A Review of Preclinical and Clinical Trial Studies. *Obesity Medicine*. 2025:100617.

59. Karimi O, Shamsizadeh A, Hassanshahi J, Taghipour Z, Khademalhosseini M, Kaeedi A, et al. Neuroprotective Effects of *Alhagi maurorum* Extract in a Rat Model of Mild Cognitive Impairment. *Jundishapur Journal of Natural Pharmaceutical Products*. 2025;20(20).

60. Hakimizadeh E, Kaeidi A, Fatemi I, Shamsizadeh A, Hassanshahi J. Troxerutin alleviates hepatorenal toxicity induced by carbon tetrachloride in male mice. *Iranian Journal of Basic Medical Sciences*. 2025;28(7).
61. Petrudi NR, Petroudi SR, Rajabi MR, Farshidi H, Hassanshahi J. Radiation-induced coronary artery calcification in breast cancer: insights from a systematic review and meta-analysis. *Coronary Artery Disease*. 2025;10.1097.
62. Sedghi Z, Kaeidi A, Hassanshahi J. Oleuropein mitigates acetaminophen overdose-induced kidney injury in male rats by enhancing antioxidant defense and suppressing inflammatory and apoptotic pathways. *Drug and Chemical Toxicology*. 2025:1-10.
63. Hadavinejad M, Azin M, Fatemidokht A, Hassanshahi J, Amiri Khorasani A, Iranmanesh F. Lessons from the Frontline: A Phenomenological Study into Faculty Members' Experiences with Challenges of Remote Online Exams in Medical Sciences Universities. *Interdisciplinary Journal of Virtual Learning in Medical Sciences*. 2025;16(2):179-92.
64. Soltani N, Kaeidi A, Shamsizadeh A, Hassanshahi J. The Therapeutic Approaches to Cognitive Impairment Induced by Heavy Metals (Copper, Arsenic, And Lead): A review study. *Journal of Kerman University of Medical Sciences*. 2025;32(1):1-12.
65. Jamali N, Kaeidi A, Hassanshahi J, Memarzadeh MR, Tavakoli T, Taghipour Z, et al. A Specific Herbal Mixture of Lavandula, Cloves, Rosa, Astragalus, and Cornus Mas (LCRAC) Improves Cognitive Function in a Rat Model of Streptozotocin-Induced Mild Cognitive Impairment. *Advanced Biomedical Research*. 2025;14(1):141.
66. Rahimi Petrudi N, Rahimi Petroudi S, Rajabi MR, Farshidi H, Hassanshahi J. Radiation-induced coronary artery calcification in breast cancer: insights from a systematic review and meta-analysis. *Coronary Artery Disease*. 2025.
67. Ghaffarinasab M, Kaeidi A, Hassanshahi J. Mitigating Remote Organ-Induced Brain Injury in Renal Ischemia-Reperfusion: The Role of Oleuropein in Inhibiting Oxidative Stress, Inflammation, Ferroptosis, and Apoptosis in Male Rats. *Journal of Neuroimmune Pharmacology*. 2025;20(1):1-16.
68. Eslahi E, Shamsizadeh A, Hassanshahi J, Kaeidi A. Effects of Diethylene Glycol on Cognitive Abilities in Rats. 2025.

Technical Skills

- ✓ Animal Handling (Rat & Mouse)
- ✓ Tracheal catheterization
- ✓ Catheterization of Femoral arteries, Carotid and Jugular veins
- ✓ Bladder and Ureter catheterization
- ✓ Creation of an ischemic-reperfusion kidney model
- ✓ Creating a reversible and irreversible ureteral obstruction model in laboratory animals
- ✓ Creating a renal sympathectomy model
- ✓ Isolating the renal artery and using a Doppler Laser Device for measure renal blood flow
- ✓ Using the Power Lab system and the lab-chart software to record and evaluate hemodynamic indicators (systolic pressure, diastolic pressure, mean arterial pressure, heart rate, renal perfusion pressure and renal vascular resistance) in laboratory animals
- ✓ Investigation of baroreceptors sensitivity in laboratory animals
- ✓ Evaluation of renal function indicators (creatinine clearance, sodium and potassium excretion, GFR, sodium tubular loads, pressure diuresis and etc.) in laboratory animals
- ✓ Creation of polycystic kidney and chronic renal failure models
- ✓ Creating an orchidectomy and ovariectomy model in rats and mice
- ✓ Creating a Unilateral Nephrectomy Model (GOLDBALT) and Partial Nephrectomy
- ✓ stereotaxic brain surgery in rats & mice
- ✓ Global brain ischemia- reperfusion in rat & mice
- ✓ Spectrophotometry
- ✓ Tissue perfusion

Research Interests

- ✓ Renal ischemia-reperfusion treatment
- ✓ Advanced research on renin-angiotensin associated with renal disease
- ✓ Fundamental-applied research in kidney diseases associated with hypertension
- ✓ providing a strategy for preventing the development of kidney stones
- ✓ Parkinson & Alzheimer's disease treatment planning
- ✓ Brain Ischemia-reperfusion treatment
- ✓ spinal cord injury
- ✓

Workshops Attended

- ✓ Springer Workshop on “How to write and get published”, Tehran University of Medical Sciences, Iran, February 2013.
- ✓ Workshop on Advanced Search in Electronic Sources, Tehran University of Medical Sciences, Iran, December 2012.
- ✓ Workshop on Research Methods, Tehran University of Medical Sciences, Iran, December 2012.
- ✓ Workshop on Proposal Writing and Preparation, Tehran University of Medical Sciences, Iran, November 2010.