

Akram Ranjbar

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EDUCATION

Ph.D. Toxicology, Tehran University of Medical Sciences, Iran

MSc Toxicology, Tehran University of Medical Sciences, Iran

BSc Biology, Tehran University, Iran

RESEARCH

BIOCHEMICAL/MOLECULAR TOXICOLOGY

This part of my research focuses on oxidative stress pathways in chemical exposure (acute & chronic toxicity in cells, animals and human samples) can be modulated with antioxidant therapy especially new antioxidants. Also study of new mechanisms of chemicals and pollutants on ferroptosis cell death.

PESTICIDES

This of my research focus on cellular and molecular mechanisms of pesticides toxicity and the effects of antioxidative materials especially nanoantioxidant roles in decrease of pesticides injurers in vivo and in vitro and synthesis of nanopesticides and comparison of properties in environment and biological samples to pesticides.

NANOTOXICOLOGY

This part of my research focus on finding mechanisms of nanoparticles toxicity (molecular and cellular pathways) in vivo and in vitro. I focus on relation between nanotoxicity and oxidative stress. The synthesis of nanoantioxidants and study of that on chemical toxicities.

MYCOTOXINES

This part of my research focus on finding toxicity mechanisms of mycotoxins as zearalenone and the effects of new antioxidants on mycotoxins toxicity modulation.

MICROPLASTICS & NANOPLASTICS

In this part of research, focus on the toxicity mechanisms of microplastics and nanoplastics as environmental pollution in vitro & in vivo.

WORK EXPERIENCE

Full Member of SOT, (2020- present)

Member of vice chancellor for research, Hamadan University of Medical Sciences, Hamadan, Iran (2015-2017)

Member of Iranian Toxicology Society (2015-present)

Head of Student research committee (Arak University of Medical Sciences, Arak, Iran 2003-2005), Hamadan University of Medical Sciences, Hamadan, Iran (2013-2015)&(2016-2017)

Head of Nutrition Health Center. Hamadan University of Medical Sciences, Hamadan, Iran, (2021-present)

Faculty member. Hamadan University of Medical Sciences, Hamadan, Iran, (2012-present)

PUBLICATIONS

1. Abdollahi T, **Ranjbar A**, Faradmal J, Habibi Mohraz M, Assari MJ. Evaluating oxidative stress biomarkers in oncology nurses exposed to antineoplastic drugs: A cross-sectional study. *European Journal of Oncology Nursing*.2024; 69.
2. Oftadeh Harsin A, Makhdoomi S, Soliemani M, Firozian F, Nili-Ahmadabadi A, **Ranjbar A***.Crocic-loaded Niosomal Nanoparticles Reversing Cytotoxicity and Oxidative Stress in HEK293 Cell Line Exposed to Paraquat: An In vitro Study. *Pharm Nanotechnol.* 2024.
3. Mohammadi M, Tajedini SS, Sadeghian Z, Asl SS, Kheiripour N, Sabahi M, **Ranjbar A***. Molecular, biochemical and histological assessment in paraquat induced neurotoxicity: restoring role of nano-curcumin in an experimental study. *Acta Neurol Taiwan*. 2024 Sep 30;33(3):90-102.
4. Ghasemi H, Motevali Manesh SF , Kheiripour N , Asl SS , Jouzdani AF , **Ranjbar A***, Abdolvahab MH . An Oxidative Stress Study on Curcumin and Nanocurcumin against Aluminum phosphide-induced Kidney Injury in Rats: The Role of SIRT1/FOXO3 Signaling Pathway in Nephrotoxicity. *Pharmaceutical Nanotechnology*, 21 Aug 2023.
5. Golmohammadi, R, Shafieeb Motlagh, M, Aliabadi, M, Faradmal, J, **Ranjbar A**. Staffs' physiological responses to irrelevant background speech and mental workload in open-plan bank office workspaces. *Work*,2023, Pre-press, pp. 1-14, 2023.
6. Yazdi A, Shirmohammadi K, Parvaneh E, Hosseini SK, **Ranjbar A**, Mehrpooya M. Cardioprotective Effects of Coenzyme Q10 Supplementation on Patients with ST-Segment Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention. *Pharm Sci*. 2023;29(3): 355-367.
7. Lotfi S, Esfahani M, **Ranjbar A***, Mehri F. Protective effect of flaxseed oil the on diazinon-induced hepatotoxicity in male rats. *Proceedings of the Indian National Science Academy volume 89*, pages655–663 (2023).
8. Ghasemi MR, **Ranjbar A**, Tamri P *. Pourmoslemi S, Nourian A, Dastan D. In vitro Antibacterial Activity and Wound Healing Effects of Achillea millefolium Essential Oil in Rat. *J Pharmacopuncture*. 2023 Jun 30; 26(2): 167–174.
9. Ahmadimoghaddam D, Talebi SS, Rahmani A, Zamanirafe M, Parvaneh E, **Ranjbar A**, Poorolajal J, Mehrpooy M. Prevention of contrast induced-acute kidney injury using coenzyme Q10 in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. *European Journal of Clinical Pharmacology* (2023).
10. Ghafari F, Sadeghian Z, Oftadeh Harsin A, Khodabandelo S, **Ranjbar A*** . Anti-oxidative properties of nanocrocic in Zearalenone induced toxicity on Hek293 cell; The novel formulation and cellular assessment. *Human and Experimental Toxicology*. 2023;42: 1–12.
11. **Ranjbar A**, Kheiripour N, Shateri H, Sameri A, Ghasemi H. Protective Effect of Curcumin and Nanocurcumin on Sperm Parameters and Oxidant-Antioxidants System of Rat Testis in Aluminium Phosphide Subacute Poisoning. *Pharmaceutical Nanotechnology*. 2023.
12. Khodavysi M, Kheiripour N, Ghasemi H, Soleimani-Asl S, Jouzdani A, Sabahi M, Ganji Z, Azizi, Z, **Ranjbar A*** . How can nanomicelle-curcumin modulate aluminum phosphideinduced neurotoxicity?: Role of SIRT1/FOXO3 signaling pathway *AIMS Neuroscience*. 2023;10 (1): 56–74..

13. Khanverdilio S , Talebi-Ghane E , **Ranjbar A** , Mehri F, Content of potentially toxic elements (PTEs) in various animal meats: a meta-analysis study, systematic review, and health risk assessment. *Science and Pollution*,2023.
14. Jamshidi M, Walcarius A, Thangamuthu M, Mehrgardi M, **Ranjbar A***. Electrochemical approaches based on micro- and nanomaterials for diagnosing oxidative stress. *Microchimica Acta*, 190: 117 2023.
15. Karbasi A, Abbasifard A, Firouzian F, Soleimani Asl S, Azizi Z, **Ranjbar A***. Is nanoparaquat safer than bulk paraquat? An in vitro and in vivo evaluation. *Toxicology*. 2023; 484.
16. Oftadeh Harsin A, Firozian F, Nili Ahmadabadi A, Soleimani Badie M, **Ranjbar A***. Nanocrocine Protective Effects on Paraquat-Induced Oxidative Stress in the MRC-5 Cell Line. *Indian Journal of Clinical Biochemistry* . 2024;39: 283–290.
17. Daneshvar A, Fathi Jouzdani A, Firozian F, Sara Soleimani Asl S, Mohammadi M, **Ranjbar A***. Neuroprotective effects of crocin and crocin-loaded niosomes against the paraquat-induced oxidative brain damage in rats. *Open Life Sciences*.2022: 17(1).
18. Hosseini SM, Ghasemi H, Moradi Y, **Ranjbar A***. The Comparison of Persian Shallot and Garlic Hydroalcoholic Extracts on Albumin Glycation. *Novelty in Clinical Medicine*. 2022; 1(4): 197-203.
19. Afzali S, Fadaei F, Oftadeh O, **Ranjbar A*** . Salivary Biomarkers of Oxidative Stress in Methamphetamine Users: A Case-Control Study. *Novelty in Clinical Medicine*. 2022; 1(2): 95-100.
20. **Ranjbar A**, Satari M, Mohseni R, Tavilani A, Ghasemi H. *Chlorella vulgaris* ameliorates testicular toxicity induced by carbon tetrachloride in male rats via modulating oxidative stress. *Anderologia*. 2022;54(9).
21. Salimi, A, Kheiripour, N, Fathi Jouzdani, A, Ghasemi, H, Soleimani Asl, S, Ghafouri-Khosrowshahi, A, **Ranjbar A***. Nanocurcumin Improves Lipid Status, Oxidative Stress, and Function of the Liver in Aluminium Phosphide-Induced Toxicity: Cellular and Molecular Mechanisms. *BioMed Research International* .2022; 1-13.
22. Sabahi M , Ami Ahmadi S, Kazemi A, Mehrpooya M , Khazaei M , **Ranjbar A***, Mowla A. The Effect of Oleoylethanolamide (OEA) Add-On Treatment on Inflammatory, Oxidative Stress, Lipid, and Biochemical Parameters in the Acute Ischemic Stroke Patients: Randomized Double-Blind Placebo-Controlled Study. *Oxidative Medicine and Cellular Longevity*. 2022; 2022: 1-11.
23. Asadi T, Rahimi Kakavandi, Nili Ahmadabadi A, Heshmati A, **Ranjbar A***, Abdi K, Ezoddin M. Development of effervescence-assisted switchable polarity solvent homogeneous liquid-phase microextraction for the determination of permethrin and deltamethrin in water samples prior to gas chromatography–flame ionization detection. *Biomedical Chromatography*. 36;5:2022.
24. Mahlooji MA, Heshmati A, Kheiripour N, Ghasemi H, Soleimani Asl S, Solgi GH, **Ranjbar A***, Hosseini. A. Evaluation of Protective Effects of Curcumin and Nanocurcumin on Aluminium Phosphide-Induced Subacute Lung Injury in Rats. *Drug Res* 2022; 72: 100–108.
25. Jouzdani AF, Ganjirad Z, Firozian F, Soliemani-Asl S, **Ranjbar A***. Protective effects of N-acetylcysteine niosome nanoparticles on paraquat-induced nephrotoxicity in male rats. *Pharmaceutical Nanotechnology*. 2022
26. Keshavarzi A, Seifkar S, **Ranjbar A** Kheiripour N, Ghaleiha A, Soltaniyan A, Rafieemehr H. Effect of fresh red grape juice and grape fermentative product on oxidative-stress in human erythrocytes in vitro. *Archives of Biotechnology and Biomedicine*. 2022.
27. Mahjub R, Shayesteh OH, Derakhshandeh K, **Ranjbar A**, Mehri F, Heshmati A. A novel label-free colorimetric polyA aptasensing approach based on cationic polymer and silver nanoparticles for detection of tobramycin in milk. *Food Chemistry*. 2022;382(15).

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29. Pourjafar, M, Malih, S, **Ranjbar, A***. The Effects of Ce2 Nanoparticles (CeNPs) on Oxidative Stress Biomarkers of Rat Liver Mitochondria: An In vitro Study. *Nanoscience & Nanotechnology-Asia*, Volume 11, Number 1, 2021, pp. 67-74(8)
30. Abdolmaleki M , Mehrpooya M , Sifizarei B, Saidijam M , Soltanian A , Ganji M , **Ranjbar A***. Oxidative Toxic Stress and DNA Damage as a Promising Strategy for Identifying Patients with Nonalcoholic Fatty Liver Disease. *Jordan Journal of Biological Sciences*. Volume 14, Number 4, 2021.
31. Fathi Jouzdani A, Heidarimoghadam R, Hazhirkamal, M, **Ranjbar A***. Nanoantioxidant/Antioxidant Therapy in 2019-nCoV: A New Approach to Reactive Oxygen Species Mechanisms. *Current Drug Therapy*, Volume 16, Number 4, 2021, pp. 291-298.
32. Shayesteh OH, Mahjub R, **Ranjbar A**, Derakhshandeh K, Jamshidi M.. Nano optical and electrochemical sensors and biosensors for detection of narrow therapeutic index drugs. *Microchimica Acta* volume 188, Article number:2021: 411.
33. Kheiripour N, Plarak A, Heshmati A, Asl SS, Mehri F, Ebadollahi-Natanzi A, **Ranjbar A***. Evaluation of the hepatoprotective effects of curcumin and nanocurcumin against paraquat-induced liver injury in rats: Modulation of oxidative stress and Nrf2 pathway. *Journal of Biochemical and Molecular Toxicology*. 2021:e22739.
34. Jamshidi M, **Ranjbar A***, Khazalpour S, Dastan D, Vakili-Azghandi M, Torabi S. Characterization, Electrochemical Detection, Biological Evaluation and Molecular Modelling of 1,5-Di-O-caffeoylquinic Acid from Artichoke (*Cynara scolymus L.*) Head Extract. *Journal of The Electrochemical Society*. 2021;168(1):016509.
35. Afzali S, Karami M, Kheyripour N, **Ranjbar A***. Investigating the Effect of Fresh Frozen Plasma and Albumin on DNA Damage and Oxidative Stress Biomarkers in Poisoning Cases by Organophosphates. *Drug Research*. 2021;71(01):10-6.
36. **Ranjbar A**, Jamshidi M, Torabi S. Molecular modeling of the antiviral action of Resveratrol derivatives against the activity of two novel SARS CoV-2 and 2019-nCoV receptors. *European Review for Medical and Pharmacological Sciences* 2020; 24: 7834-7844
37. Shafiee Motlagh M, Golmohammadi R, Aliabadi M, Faradmal J, **Ranjbar A**. Acoustic Problems and Their Solutions in a Typical Open-Plan Bank Office *Ergonomics in Design*, vol. 28, 1: pp. 24-32 , 2020.
38. Mahjub R, Najafabadi F, Dehkhodaei N, Kheiripour N, Ahmadabadi A, Soleimani Asl S, Taheri-Azandariani M, **Ranjbar A***. Eudragit L-100 Capsules Aromatize and Quaternize Chitosan for Insulin Nanoparticle Oral Delivery During Toxic Oxidative Stress in Rat Liver and Kidney. *Pharmaceutical Nanotechnology*, Volume 8, Number 3, 2020.
39. **Ranjbar A**, Mehri N, Ghasemi H, Dastan D, Kazemi Najafabadi F, Dehkhodaei N, Kheiripour N. Evaluation of the Protective Effects of Hydroalcoholic Extract of *Satureja avromanica* Against Malathion-induced Oxidative Stress in the Liver: An Experimental Study. *Pharmaceutical and Biomedical Research*, Volume 6 issue (1). 2020.
40. Firozian F, Karami S, **Ranjbar A**, Azandaryani MT, Nili-Ahmadabadi A. Improvement of therapeutic potential N-acetylcysteine in acetaminophen hepatotoxicity by encapsulation in PEGylated nano-niosomes. *Life Sci*. 2020:Volume 255, 15.
41. Ahmadimoghaddam D, Sadeghian R, **Ranjbar A**, Izadidastenaie Z, Mohammadi S. Antinociceptive activity of *Cnicus benedictus L.* leaf extract: a mechanistic evaluation. *Research in Pharmaceutical Sciences*, October 2020; 15(5): 463-472

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43. Heshmati A, Ghadimi S. **Ranjbar A**, Mousavi Khaneghah A. Assessment of processing impacts and type of clarifier on the concentration of ochratoxin A in pekmez as a conventional grape-based products. *LWT Volume* 119, February 2020.
44. Mehri N, Haddadi R, Ganji M, Shahidi S, Soleimani Asl S, Taheri Azandariani M, **Ranjbar A***. Effects of vitamin D in an animal model of Alzheimer's disease: behavioral assessment with biochemical investigation of Hippocampus and serum. *Metabolic Brain Disease.*2020 .35:263–274.
45. Ami Ahmadi S, Kazemi A, Sabahi M, RazipourS, Salehipour A, Ghiasian M, Ghasemi H, **Ranjbar A***. Probable antioxidant therapy of Saffron Crocin in patients with multiple sclerosis: A randomized controlled trial. *Biomedicine: 2020; 40(4): 516-521.*
46. Sabahi M Ami Ahmadi S, Mahjub R , **Ranjbar A***. Oxidative Toxicity in Diabetes mellitus: Role of Nanoparticles and Future Therapeutic Strategies. *Oxidative Toxicity in Diabetes mellitus: Role of Nanoparticles and Future Therapeutic Strategies. Precis. Nanomed.* 2019 October;2(4):382-392.
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48. Hosseini A, Rasaie D, Soleymani Asl S, Nili AhmadabadiA, **Ranjbar A***. Evaluation of the protective effects of curcumin and nanocurcumin against lung injury induced by sub-acute exposure to paraquat in rats . *Toxin Reviews;*2019:1-8.
49. Ghiasian M, Khamisabadi F, Kheiripour N, Karami M, Haddadi R, Ghaleiha A, Taghvaei B, Oliaie SS, Salehi M, Samadi P, **Ranjbar A***. Effects of crocin in reducing DNA damage, inflammation, and oxidative stress in multiple sclerosis patients: A double-blind, randomized, and placebo-controlled trial. *J Biochem Mol Toxicol.* 2019:1-6.
50. Firouzian F, Pourshoja P, Nili-Ahmadabadi A, **Ranjbar A***. Hepatoprotective effect of N-acetylcystein loaded niosomes on liver function in paraquat-induced acute poisoning. *Pesticide Biochemistry and Physiology. Pestic Biochem Physiol.* 2019 Oct;160:146-153.
51. Shateri H, **Ranjbar A**, Kheiripour N, Ghasemi H, Pourfarjam Y, Habibitabar E, Gholami H, Moridi H. Tempol improves oxidant/antioxidant parameters in testicular tissues of diabetic rats. *Life Sci.* 2019 Mar 15;221:65-71.
52. **Ranjbar A**, Heshmati A, Karami Momtaz J, Vahidinia A. Effect of iron-enrichment on the antioxidant properties of wheat flour and bread Author links open overlay panel. *Journal of Cereal Science Volume* 87, May 2019, Pages 98-10
53. Hosseini SA, Saidijam M, Karimi J, Yadegar Azari R, Hosseini V, **Ranjbar A***. Cerium Oxide Nanoparticle Effects on Paraoxonase-1 Activity and Oxidative Toxic Stress Induced by Malathion: A Potential Antioxidant Compound, Yes or No? *Indian Journal of Clinical Biochemistry.* 6 June 2018.
54. Moridi H, Hosseini SA, Shateri H, Kheiripour N, Kaki A, Hatami M, **Ranjbar A***. Protective effect of cerium oxide nanoparticle on sperm quality and oxidative damage in malathion-induced testicular toxicity in rats: An experimental study. *Int J Reprod Biomed (Yazd).* 2018 Apr;16(4):261-266.
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72. **Ranjbar A**, Khajavi F, Hossini Zijoud SM, Ghasemi H, Mohsenzadeh F, Chehregani A Effects of Hydroalcoholic Extract *Matricaria chamomilla* L. on Paraquat-induced Blood Oxidative Toxicity in Rat. *Plant Medical Journal*. 1393

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Books

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2. **Akram Ranjbar**, Hassan Ghasemi, Mostafa Hossini Zijod. Plant Poisoning. Noredanesh Publications; 2014, Tehran, Iran. (Persian)
3. Freshteh Mehri, **Akram Ranjbar**, Ali Pormohammadi, Ghasem Azarian. *Introduction to toxicological methods.* Hamadan University of Medical Sciences publication, 2021, Hamadan, Iran. (Persian)
4. Freshteh Mehri, **Akram Ranjbar**, Ali Pormohammadi, Ghasem Azarian. *New methods of sampling and analysis of toxic substances in toxicology.* Hamadan University of Medical Sciences publication, 2021, Hamadan, Iran. (Persian)
5. **Book Chapter:** Heidarimoghadam R, **Ranjbar A***. Chapter 26 - The crocin usage in multiple sclerosis disease. Treatments, Nutraceuticals, Supplements, and Herbal Medicine in Neurological Disorders 2023, 483-497.
6. **Book Chapter:** Melo, L., Babayev, M., Vanin, J., **Ranjbar, A.** & Klaunig, JE. (2024) Occupational Chemical Carcinogenesis. In: Patty's Toxicology, 7th Edition. Wiley Press. (in press)

TEACHING

1. **Pharm. D. Students:**
 - *Principles of Toxicology*
 - *Poisoning control*
2. **MSc in Toxicology Students:**
 - *Environmental Toxicology*
 - *Industrial Toxicology*
 - *Forensic Toxicology*
 - *Principles of research in Toxicology*
3. **Ph.D. Students:**
 - *Advanced Toxicology*
 - *Nanotoxicology*

AWARDS

- Top Lecturer in Hamadan University of medical sciences.Hamadan.Iran2013 and 2017
- Top Researcher in Hamadan University of Medical Sciences.Hamadan.Iran 2015
- Top Researcher in Hamadan University of Medical Sciences.Hamadan.Iran 2016
- Top Researcher in Hamadan University of Medical Sciences.Hamadan.Iran 2019
- Top Researcher in Hamadan University of Medical Sciences.Hamadan.Iran 2021
- Top Researcher in Hamadan University of Medical Sciences.Hamadan.Iran 2023

WORKSHOPS

- Workshop on how to scientific writing. Hamadan University of Medical Sciences, Hamadan, Iran .2018 (Teacher).
- Workshop on Experimental Design animal tests. Pharmaceutical Sciences Research Center. Tehran University of Medical Sciences, Tehran, Iran winter.2009.
- Workshop on how to read paper. Tehran University of Medical Sciences, Tehran, Iran Janu.2008.
- Workshop on Techniques in protein purification. Pastor institute. Tehran, Iran. Aug.2008
- Workshop on PCR techniques. Faculty of Pharmacy. Tehran University of Medical Sciences, Tehran, Iran Dec.2007.
- Workshop on Reference Manager. Tehran University of Medical Sciences, Tehran, Iran. Jan. 2006
- Workshop on liver perfusion and biomarkers of hepatotoxicity. Faculty of pharmacy. Tehran University of Medical Sciences, Tehran, Iran. Aug .2006.
- Workshop on EBM, Critical thinking. Tehran University of Medical Sciences, Tehran, Iran. Dec .2006
- Workshop of scientific writing, Arak University of Medical Sciences, Arak, May. 2005.
- Workshop on the Education Process in Medical Sciences. Faculty of Health. Tehran University of Medical Sciences, Tehran, Iran, Dec. 2005
- Workshop on animal research in laboratory. Arak University of Medical Sciences, Arak.Jan..2005.
- Workshop on Research Methods in Medical Sciences, Arak University of Medical Sciences, Arak, Iran, Jan.2005.
- Workshop clinical trial, Arak University of Medical Sciences, Arak, Iran. Aug. 2004.
- Workshop on sampling in research, Arak University of Medical Sciences, Arak, Iran, May. 2004
- Workshop on questionnaire design in Medical Sciences, Arak University of Medical Sciences, Arak, Iran, Jul.2004.
- Workshop on kind of studying in research, Arak University of Medical Sciences, Arak, Iran, Feb. 2003.

WORK PRESENTATIONS

1. Ashkan Karbasi, Anahita Abbasifard, Farzin Firouzian, **Akram Ranjbar**. Paraquat-alginate particles as a possible chemotherapeutic agent. ICBMB 2022.
2. **Akram Ranjbar & et al.** Evaluation of the hepatoprotective effects of N-acetylcystein loaded niosomes on oxidative stress biomarkers against paraquat-induced liver injury in rats. 3rd Nanomedicine & Nanosafety Conference 25-26 January, 2020.
3. **Akram Ranjbar & et al.** Comparison Nanocurcumin and Curcumin on Brain Tissue in Subacute Paraquat Poisoning in Male Rat 5th Iranian Congress of Toxicology 19 to 22 November 2019 – Tehran.Iran.
4. Asieh Hosseini¹, Danyal Rasaie², Sara Soleymani Asl³, Amir Nili Ahmadabadi⁴, **Akram Ranjbar**. Evaluation of the protective effects of curcumin and nanocurcumin against paraquat-induced lung injury in rats: the role of oxidative stress and gene expression. 24th Iranian & 3rd International Congress of Physiology and Pharmacology,30 Oct-01 Nov, 2019 Tehran, Iran
5. Davoud Ahmadimoghaddam, Reihaneh Sadeghian, **Akram Ranjbar**, Zohreh Izadidastenaie⁴, and Saeed Mohammadi. Possible Involvement of Opioidergic Mechanisms and L-arginine/NO/cGMP/KATP channel pathway in Antinociceptive Effects of Cnicus benedictus L. and cnicin in Male Rat. 24th Iranian & 3rd International Congress of Physiology and Pharmacology,30 Oct-01 Nov, 2019 Tehran, Iran
6. **Ranjbar Akram**, Soleimani Asl Sara, Ganji Maziar, Saidabadi Rahmatollah and Taheri Azandariani Masoume. The Neuroprotective effects of CeNPs on paraquat-induced oxidative toxic stress in brain. 8th European Neurology Congress. September 21-23, 2016 Amsterdam, Netherlands
7. Naserabadi Arman, Firozian Farzin, Soleimani Asl Sara, **Ranjbar Akram**. Silver Nanoparticles (AgNPs) on Oxidative Toxic Stress and Histological Damage in Rat Kidney.The 2 Nanomedicine Congress.Zanjan. Sep 2016
8. **Akram Ranjbar**. AmirNili Ahmadabadi, Hassan Ghasemi, Seyed Mostafa Hossinijod, Shirin Moradkhani. The comparison of Allium hirtifolium hydroalcoholic extract &N-acetylcystein(NAC)on the oxidative stress biomarkers in acute aluminium phosphide toxicity in blood rat.Kashan .Sep 2015
9. **Akram Ranjbar**. AmirNili Ahmadabadi, Hassan Ghasemi, Seyed Mostafa Hossinijod, Shirin Moradkhani. The comparison of Allium hirtifolium hydroalcoholic extract &N-acetylcystein(NAC)on the oxidative stress biomarkers in acute paraquat toxicity in blood rat.Tehran May 2015.
10. Abdolhakim Hossini, **Ranjbar A**, et al.The study of Nanoceria on malathion toxicity.Arak May 2015.

11. **Ranjbar A.** Is oxidative stress biomarkers a good indicator in paraquat poisoning? 6th Iranian international congress laboratory & clinic. Tehran. 12-13 Feb 2014.
12. **Ranjbar A**, Ataiee Z. The effects on nanosilver on liver: oxidant or antioxidant? Nanotechnology congress. Esfahan 20 Feb 2014
13. **Ranjbar A**. Oxidative stress/mitochondrial dysfunction in snail bite poisoning. The third Iranian congress on natural toxins. Tehran. 18-20 Feb. 2014.
14. **Ranjbar A**, Sharifzadeh M, Karimi J, Tavilani H, Heidary shayesteh T, Baeeri M, Abdollahi M. Propofol attenuates toxic stress by CCL4 in liver mitochondria and blood in rat. 12 Iranian congress of Toxicology. 15-17 May 2013.
15. **Ranjbar A**, Baeeri M. The effect of pentoxifylline on malathion-induced mitochondrial damage in rat liver. 12 Iranian congress of Toxicology. 15-17 May 2013.
16. Heidary Shayesteh Tavakol, **Ranjbar Akram**, Sayadi Azam and Zadkhash Nahid Protective effects of green tea on antioxidative biomarkers in chemical laboratory. 2 International congress of medical plants. Tehran. Iran. May 2013.
17. **Ranjbar A**, Karimi J, Tavilani H. Alteration of lipid peroxidation and mitochondrial viability in CCl4-induced liver injury. National conference on modern biological sciences and technologies 24 January 2013. Malayer. Iran.
18. **Ranjbar A**, Vakilian K, Bayaty A, Khorsandi M. New research in health. 10-11 October. 2012 Arak Iran.
19. **Ranjbar A**, Abdollahi M, Ghahramani MH, Sharifzade M, Baeeri M, Ghazi Khansari M, Golestani A. "Pentoxifylline prevents oxidative damage elicited by the organophosphorous pesticide malathion The 10th Iranian Congress of Toxicology. May 18-20, 2009, Tehran, Iran,
20. **Ranjbar A**, Vakilian K., Zarganjfard A. Comparison of oxidative stress indices pregnancy and normal delivery and correlation this indexes in newborn with delivered mothers. XXI European congress of prenatal medicine Sep. 10-13, 2008. Istanbul, Turkey
21. **Ranjbar A**, Khani-Jazani R., Sedighi A., Karimirad R., Jalali Mashayekhi F., Ghazi-Khansari M., Abdollahi M. Oxidative stress in chronic exposure to aluminum. The 9th Iranian Congress of Toxicology. May 15-17, 2007, Shiraz, Iran, P135.
22. Hosseini A., Amini-Shirazi N., **Ranjbar A**, Abdollahi M., Shadnia S., Ebadollahi A.R. An epidemiological study of poisoning cases of aluminium phosphide reported to Loghman hospital (2001-2006). The 9th Iranian Congress of Toxicology. May 15-17, 2007, Shiraz, Iran, P: 183.
23. Amini-Shirazi N., Hosseini A., **Ranjbar A**, Mohammadirad A., Yasa N., Abdollahi M. Biochemical mechanisms of anti-colitis action of Ziziphora clinopoides in mouse. The 9th Iranian Congress of Toxicology. May 15-17, 2007, Shiraz, Iran, P: 130.
24. **Ranjbar A**, Abdollahi M., Hosseini A., Amini-Shirazi N., et al. Induction of oxidative stress in chronic exposure to aluminum. ACTA PHARMACOLOGICA SINICA 2006, 27: 446-446 Suppl. JUL 2006
25. Sharifzade M, **Ranjbar A**, Hosseini A. The effect of green tea extract on oxidative stress and spatial learning in Streptozotocin-diabetic rats. The 9th Iranian Congress of Biochemistry Oct 29-Nov 1, 2007, Shiraz, Iran.
26. Takalo H, Ghasemineghad S, **Ranjbar A**, Bayaty A. The effect of cinnamum zeylanicum on lipid peroxidation in operating personnel. The 7th Annual research congress of Iranian medical sciences students 30 May-1 Jun 2006. Shahid Beheshti University of medical sciences. Iran.
27. Shafiei N, Mosakhani N, **Ranjbar A**, Bayaty A. The effect of Aleovera extract on antioxidant capacity in saliva. The 7th Annual research congress of Iranian medical sciences students 30 May-1 Jun 2006. Shahid Beheshti University of medical sciences. Iran.
28. Ghaseminezhad S, **Ranjbar A**, et al. The effect of cinnamum zeylanicum on oxidative stress in operating room personnel. 6th International congress of Turkish society of toxicology. Nov 2-5 2006. Antalya, Turkey
29. Ghaseminezhad S, **Ranjbar A**, et al. The effect of cinnamum zeylanicum on oxidative stress. 17th Iranian medical sciences students Annual research congress of pharmacology & physiology. Oct 2005. Kerman University of medical sciences. Iran.
30. **Ranjbar A**, Khani-Jazani R., Sedighi A. Oxidative stress and noise. The 2nd national submit on noise, health & development. Nov 2005. Kashan university of medical sciences. Kashan. Iran
31. **Ranjbar A**. et al. Evaluation of oxidative stress in preeclamptic women. The 8th Iranian Congress of Toxicology. May 2004, Tehran, Iran.
32. Rajabian H, Ghand Y, Esmaili A, Ghasemineghad S, Mirzazade E, **Ranjbar A**. The comparison of oxidative stress in smokers and nonsmokers. The 4th Annual research congress of Iranian medical sciences students 2004. Tehran university of medical sciences. Iran.
33. **Ranjbar A**, et al. Free radicals injuries in health workers. The 4th Iranian Congress of health workers. Feb, 2003. Arak, Iran.
34. **Ranjbar A**. et al. Warfare agents. Congress of Bioterrorism. Apr, 2002, Arak. Iran.
35. **Ranjbar A**. et al. Induction of oxidative stress in paraquat formulating workers. The 7th Iranian Congress of Toxicology. May, 2001, Esfahan, Iran.

Persian (mother language); **English**

REVIEWING ACTIVITIES

1. **Editorial Board:**

ROS Journal 2015-2018
Avicenna Journal of Medical Biochemistry 2016-2018
Pajouhan Scientific Journal 2017-2019
Hamadan University Medical Journal 2018-Present
Herb Med J 2018- present
Avicenna Journal of Pharmaceutical Research 2020-Present

2. **Peer Review Summary:**

Performed 200 reviews for journals and Congress

3. **Journals:**

Drug Research
Human and Experimental Toxicology
Jundishapur Journal of Natural Pharmaceutical Products
Toxicology and Industrial Health
Journal of Immunopathology and Pharmacology
Koomesh
Annual Research Congress of Iranian Medical Sciences Students
Journal of Shahrekord University of Medical Sciences
Pajouhan Scientific Journal

TEACHING

4. **Pharm. D. Students:**

- *Principles of Toxicology*
- *Poisoning control*

5. **MSc in Toxicology Students:**

- *Environmental Toxicology*
- *Industrial Toxicology*
- *Forensic Toxicology*
- *Principles of research in Toxicology*

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- *Nanotoxicology*