



CURRICULUM VITAE

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Education

BSc: Ferdowsi University of Mashhad, Mashhad, Iran 1997
MSc: Tehran University of Medical Sciences, Tehran, Iran, 2006
PhD: Karolinska Institutet, Stockholm, Sweden, 2013

Awards and Scholarships

1. Top student, Tehran University of Medical Sciences, 2004-2005
2. Second rank of poster presentation, IPCS 2006, Tehran, Iran
3. First rank of young researcher, Tehran University of Medical Sciences, 2005-2006
4. First rank of young researcher, Shiraz University of Medical Sciences, 2006-2007
5. First rank of HSR researcher, Shiraz University of Medical Sciences, 2006-2007
6. First rank of student Basic Research in the **12th Razi Research Festival** on Medical Sciences, Dec. 25, 2006
7. Graduate Scholarship from Ministry of Health and Medical Education 2009-2013
8. Third rank of **Carl C. Smith graduate student awards** for meritorious research, San Francisco California U.S.A 2012
9. Top researcher, Shiraz University of Medical Sciences, 2012
10. Editorial board member and reviewer of Journal of Medical Sciences
11. Technical editorial board of Journal of Toxicology and Pharmacology
12. Editorial board member of Journal of Molecules and Medicinal Chemistry
13. Executive director of Journal of Trends in Pharmaceutical Sciences (TiPS)

Refereed publications

1. Mohammadi-Bardbori A, Bastan F, Akbarizadeh AR. The highly bioactive molecule and signal substance 6-formylindolo[3,2-b]carbazole (FICZ) plays bi-functional roles in cell growth and apoptosis in vitro. **Arch Toxicol.** 2017 Mar 13. doi: 10.1007/s00204-017-1950-9.
2. Omidi M, Ghafarian-Bahraman A, Arabnezhad MR, Ghaedi A, Mohammadi-Bardbori A. GSH/GSSG redox couple plays central role in regulation of endogenously activated aryl hydrocarbon receptor signaling. In press

3. Ghafarian-bahraman A, Sadeghimanesh N, Mirzaei M, Akbarizadeh AR, Omidi M, Mohammadi H, Arabnezhad MR, Mobini K, Mohammadi-Bardbori A. Effects of omeprazol and ketoconazole on aryl hydrocarbon receptor (AHR). **Trends in Pharmaceutical Sciences**. 2017; 3(1): 13-18.
4. Zarshenas MM, Mohammadi-Bardbori A. A medieval description of metastatic breast cancer; from Avicenna's view point. **Breast**. 2016 Oct 27;31:20-21. doi: 10.1016/j.breast.2016.10.019.
5. Mohammadi-Bardbori A, Akbarizadeh AR, Delju F, Rannug A. Chromatin remodeling by curcumin alters endogenous aryl hydrocarbon receptor signaling.. **Chem Biol Interact**. 2016 May 25;252:19-27. doi: 10.1016/j.cbi.2016.03.037
6. Omidi M, Niknahad H, Mohammadi-Bardbori A. Dithiothreitol (DTT) rescues mitochondria from nitrofurantoin-induced mitotoxicity in rat. **J Biochem Mol Toxicol**. 2016 Dec;30(12):588-592.
7. Saeedi A, Fardid R, Khoshnoud MJ, Kazemi E, Omidi M, Mohammadi-Bardbori A. Disturbance of zinc and glucose homeostasis by methyl tert-butyl ether (MTBE); evidence for type 2 diabetes. **Xenobiotica**. 2017 Jun;47(6):547-552.
8. Hosseini M-J, Jafarian I, Farahani Sh, Khodadi R, Tagavi SH, Naserzadeh P, Mohammadi-Bardbori A, Arghavanifard N. New Mechanistic approach of inorganic Palladium toxicity: Impairment in mitochondrial electron transfer. 2015, **Metallomics**. 2016 Feb;8(2):252-9. doi: 10.1039/c5mt00249d.
9. Saeedi Arastoo, · Omidi Mahmoud , · Khoshnoud Mohammad Javad, Mohammadi-Bardbori A. Exposure to methyl tert-butyl methyl ether (MTBE) is associated with mitochondrial dysfunction in rat. 2015, **Xenobiotica**. 2017 May;47(5):423-430.
10. Mohammadi-Bardbori A, Vikström Bergander L, Rannug U, Rannug A. An NADPH oxidase-dependent mechanism explains how arsenic, and other oxidants, can activate aryl hydrocarbon receptor signaling. 2015, **Chem Res Toxicol**. 2015 Dec 21;28(12):2278-86.
11. Saeedi A, Najibi A, Mohammadi-Bardbori A. Effects of long-term exposure to hydrogen sulfide on human red blood cells. 2015, **Int J Occup Environ Med**. 6(1):20-5
12. Mohammadi-Bardbori A. Assay for quantitative determination of CYP1A1 enzyme activity using 7-Ethoxyresorufin as standard substrate (EROD assay). **Nature Protocol Exchange**. 2014. doi:10.1038/protex.2014.043
13. Hosseini MJ, Mohammadi-Bardbori A, Therapeutic implication of coenzyme Q10 during statin therapy: pros and cons. **Trends in Phramaceutical Sciences**. 2015, 1(3).
14. Mohammadi-Bardbori A, Najibi A, Amirzadegan N, Gharibi R, Dashti A, Omidi M, Saeedi A, Ghafarian-Bahreman A, Niknahad H. Coenzyme Q10 remarkably improves the bio-energetic function of rat liver mitochondria treated with statins. **Eur. J. Pharmacol.** 2015 May 22;762:270-274.
15. Korani M, Ghazizadeh E, Korani Sh, Hami Z, Mohammadi-Bardbori A. Effects of silver nanoparticles on human health. **Eur. J. Nanomed**. 2015, 7(1): 51–62
16. Mohammadi-Bardbori A, Rannug A. Arsenic, cadmium, mercury and nickel stimulate cell growth via NADPH oxidase activation. **Chem Biol Interact**. 2014 Nov 10;224C:183-188.
17. Mohammadi-Bardbori A, Bengtsson J, Rannug U, Rannug A, Wincent E. Quercetin, resveratrol, and curcumin are indirect activators of the aryl hydrocarbon receptor (AHR). **Chem Res Toxicol**. 2012, 17;25(9):1878-84.
18. Wincent E, Bengtsson J, Mohammadi Bardbori A, Alsberg T, Luecke S, Rannug U, Rannug A. Inhibition of cytochrome P4501-dependent clearance of the endogenous agonist FICZ as a mechanism for activation of the aryl hydrocarbon receptor. **Proc Natl Acad Sci U S A**. 2012, 20,109(12):4479-84.

19. Jamshidzadeh A, Baghban M, Azarpira N, Mohammadi Bardbori A, Niknahad H. Effects of tomato extract on oxidative stress induced toxicity in different organs of rats. **Food Chem Toxicol.** 2008, 46(12):3612-5.
20. Mohammadi-Bardbori A, Ghazi-Khansari M. Alternative electron acceptors: Proposed mechanism of paraquat mitochondrial toxicity. **Environ Toxicol Pharmacol.** 2008, 26(1):1-5.
21. Mohammadi-Bardbori A, Nejati M, Esmaeili J, Ghafari H, Ghazi-Khansari M. Comparative Measurement of In Vitro Paraquat and Aflatoxin B1 Cytotoxicity Using Three Different Cytotoxicity Assays in Pheochromocytoma Cells (PC-12). **Toxicol Mech Methods.** 2008, 18(9):685-9.
22. Ghazi-Khansari M, Mohammadi-Bardbori A, Hosseini MJ. Using Janus green B to study paraquat toxicity in rat liver mitochondria: role of ACE inhibitors (thiol and nonthiol ACEi). **Ann N Y Acad Sci.** 2006, 1090:98-107.
23. Mohammadi-Bardbori A, Ghazi-Khansari M. Comparative measurement of cyanide and paraquat mitochondrial toxicity using two different mitochondrial toxicity assays. **Toxicol Mech Methods.** 2007, 17(2):87-91.
24. Ghazi-Khansari M, Mohammadi-Bardbori A. Captopril ameliorates toxicity induced by paraquat in mitochondria isolated from the rat liver. **Toxicol In Vitro.** 2007, 21(3):403-7.
25. Mohammadi-Bardbori A, Ghazi-Khansari M. Nonthiol ACE inhibitors, enalapril and lisinopril are unable to protect mitochondrial toxicity due to paraquat. **Pestic Biochem Physiol.** 2007, 89(2):163-167.
26. Mohammadi-Bardbori A. New approach to studying liposomes: Staining for visualization and determination of trapping efficiency by spectrophotometry using neutral red. **Pharmaceutical Chemistry Journal.** 2007, 41(5): 53-56.
27. Ghafori-Khosroshahi A, Farzami B, Mohammadi-Bardbori A. The inhibitory effect of garlic extract on the formation of glycated hemoglobin and AGE-Hb. **Journal of Medical Sciences.** 2007, 7(6): 1039-1043.
28. Niknahad H, Taghdiri A, Mohammadi-Bardbori A, Mehrabadi A.R. Protective effect of captopril against doxorubicin-induced Oxidative stress in isolated rat liver mitochondria. **Iranian Journal of Pharmaceutical Sciences.** 2010, 6 (2) : 91-98.
29. Jamshidzadeh A, Niknahad H, Azarpira N, Mohammadi-Bardbori A, Delnavaz M. Effect of lycopene on cyclophosphamide-induced hemorrhagic cystitis in rats. **Iranian Journal of Medical Sciences.** 2009, 34 (1) : 46-52.
30. Jamshhidzade A, Nicknahad H, Mohammadi-Bardbori A, Talati M. Comparative Measurement of Serum Acetyl Cholinesterase Enzyme Using Three Different Methods. **Iranian journal of toxicology.** 2009, 4:268-272.

Abstract

1. Mohammadi Bardbori A., Wincent E., Rannug U., et al. Metals induce cytochrome P4501A1 through inhibition of metabolic degradation of FICZ. **Toxicology letters.** Volume: 211 Supplement: S Pages: S143-S144.
2. Rannug, A., Wincent E., Mohammadi Bardbori A., et al. Biological effects of the proposed endogenous AHR ligand FICZ. **Toxicology letters.** Volume: 211 Supplement: S Pages: S14-S14.
3. Wincent E., Bengtsson J., Mohammadi Bardbori A., et al. Cytochrome P4501 inhibition as a novel mechanism for activation of the Ah receptor. **Toxicology letters.** Volume: 211 Supplement: S Pages: S117-S117.

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4. Jamshidzadeh A., Niknahad H., Mohammadi-Bardbori A., et al. Comparative measurement of serum acetyl cholinesterase enzyme using three different methods. Toxicology letters. Volume: 180 Supplement: 1 Pages: S237-S237.
5. Mohammadi-Bardbori A., Ghazi-Kansari M. The role of alternate electron acceptors (Paraquat) on mitochondrial toxicity. Toxicology letters .Volume: 172 Pages: S51-S51.
6. Mohammadi-Bardbori A., Ghazi-Khansari M. The inhibitory effect of captoperil on paraquat toxicity in mitochondria isolated from the rat liver. Toxicology letters. Volume: 164 Special Issue: SI Pages: S246-S246
7. Ghazi-Khansari M., Mohammadi-Bardbori A.. Comparative measurement of cyanide and paraquat mitochondrial toxicity using two different mitochondrial toxicity assays. Acta Pharmacologica Sinica. Volume: 27 Supplement: 1 Pages: 244-244.
8. Ghazi-Khansari M.,Mohammadi-Bardbori A., Hosseini M-J. Using janus green B to study paraquat toxicity in rat liver mitochondria - Role of ACE inhibitors (thiol and nonthiol ACEi). Signal Transduction Pathways, PT A: Apoptotic and extracellular Book Series: Annals of the New York Academy of Sciences Volume: 1090 Pages: 98-107

Refereed conference reports

1. Mohammadi-Bardbori A, Wincentac E, Rannug U and Rannug A. SOT's 51nd Annual Meeting at San Francisco, California U.S.A, 2012
2. Mohammadi-Bardbori A, Wincentac E, Rannug U and Rannug A. 48th EUROTOX Congress. Stockholm Sweden, 2012
3. Mohammadi-Bardbori A, Wincentac E, Rannug U and Rannug A. 7th Duesseldorf symposium on immunotoxicology, Biology of the Arylhydrocarbon Receptor , September 21 - 24, 2011
4. Mohammadi-Bardbori A, Ghazi-Khansari M 9th Iranian Congress of Toxicology, Shiraz, Iran,2007
5. Ghazi-Khansari M, Mohammadi-Bardbori A, Cell signaling conference, luxembourg, Jun 22-25, 2006
6. Ghazi-Khansari M, Mohammadi-Bardbori A, 4- 15 th World Congress of Pharmacology Beijing, China July 2-7,2006
7. Ghazi-Khansari M, Mohammadi-Bardbori A, Eurotox 2006 ,43rd congress of the European Societies of Toxicology 6th congress of Toxicology in Developing Countries, Croatia ,22-28 Sep, 2006
8. Mohammadi-Bardbori A, Ghazi-Khansari M. 10th IPCS, Tehran, Iran,2006
9. Mohammadi-Bardbori A, Ghazi-Khansari M. Turktox 2006, antalia,Turkey 2-7 Nov, 2006
10. Mohammadi-Bardbori A, Ghazi-Khansari M, The student corner of 17th physiology and pharmacology. Kerman, Iran, October, 2005

Reference

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