



## **CURRICULUM VITAE**

Date : September, 2020  
Name: **Mr. Hossein Niknahad, Pharm.D., Ph.D.**  
Date of birth: September, 23, 1963  
Citizenship: Iranian  
Address: Dept. of Pharmacology and Toxicology,  
Faculty of Pharmacy,  
Shiraz University of Medical Sciences,  
Akbarabad  
Shiraz, Fars, 71345-1583  
IRAN

Tel. (+98) -713-2426070  
Fax: (+98) -713-2424126  
Email: [niknahadh@sums.ac.ir](mailto:niknahadh@sums.ac.ir)

### **EDUCATIONS**

1991-1996 **Ph.D. in Toxicology**, Faculty of Pharmacy, University of Toronto, Toronto, Ontario, Canada.  
1982 - 1988 **Pharm.D.**, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.  
1981 Diploma in Mathematics and Physics, Khajeh Nasir High School, Jahrom, Fars, Iran.

### **JOB EXPERIENCES**

2012-2018 Vice Dean for Food and Drug, Shiraz University of Medical Sciences, Shiraz, Iran  
2008-1012 CEO and Member of board, Shirin Daroo Company, Shiraz, Iran  
2004-2012 Editor in Chief of Iranian Journal Pharmaceutical Sciences  
1996-2012 Dean of Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, IRAN.  
1996-Present Board Member of Clinical Pharmacy Board  
1988-1991 In charge of project of establishment of Faculty of Pharmacy in Shiraz University of Medical Sciences, Shiraz, IRAN.

## **PUBLICATIONS**

### **A) PAPERS**

100- Ghaemi H, Masoompour SM, Afsharypuor S, Mosaffa-Jahromi M, Ahmadi F, **Niknhada H.** (2020). The effectiveness of a traditional Persian medicine preparation in the treatment of chronic cough: A randomized blinded, placebo-controlled clinical trial. *Complementary Therapies in Medicine* 49: 102324.

99- Ommati MM, Farshad O, Shafaghat M, Azarpira N, **Niknahad H**, Heidari R. (2020). Betaine alleviates cholestasis-associated renal injury by mitigating oxidative stress and enhancing mitochondrial function. *Biologia* [https://doi.org/ 10.2478/s11756-020-00576-x](https://doi.org/10.2478/s11756-020-00576-x).

98- Ommati MM, **Niknahad H**, Farshad O, Azarpira N, Heidari R. (2020). In Vitro and In Vivo Evidence on the Role of Mitochondrial Impairment as a Mechanism of Lithium-Induced Nephrotoxicity. *Biological Trace Element Research* <https://doi.org/10.1007/s12011-020-02302-9>.

97- Mousavi Kh, Amin Sh, Ommati MM, **Niknahad H**, Heidari R. (2020). N-Acetylcysteine Treatment Protects Intestinal Mitochondria in a Surgical Stress Model, *Trends in Pharmaceutical Sciences* 6(2): 87-96

96- Ahmadi A, Ommati MM, **Niknahad H**, Heidari R. (2020). Methylene Blue Improves Mitochondrial Function in the Liver of Cholestatic Rats. *Trends in Pharmaceutical Sciences* 6(2): 73-86

95- Ommati MM, Farshad O, **Niknahad H**, Mousavi Kh, Moein M, Azarpira N, Mohammadi H, Jamshidzadeh A, Heidari R. (2020). Oral administration of thiol-reducing agents mitigates gut barrier disintegrity and bacterial lipopolysaccharide translocation in a rat model of biliary obstruction. *Current Research in Pharmacology and Drug Discovery* 1: 10-18.

94- Ommati MM, Azarpira N, Gozashtegan V, Khodaei F, **Niknahad H**, Heidari R. (2020). Methylene Blue Treatment Enhances Mitochondrial Function and Locomotor Activity in a C57BL/6 Mouse Model of Multiple Sclerosis. *Trends in Pharmaceutical Sciences* 6(1): 29-42.

93- Ommati MM, Farshad O, Mousavi Kh, Jamshidzadeh A, Azmoon M, Heidari S, Azarpira N, **Niknahad H**, Heidari R. (2020). Betaine supplementation mitigates intestinal barrier disintegrity and bacterial endotoxin translocation in cirrhotic rats. *PharmaNutrition*, Volume 12, June 2020, 100179

92- Siavashpour A, Khalvati B, Azarpira N, Mohammadi H, **Niknahad H**, Heidari R. (2020). Poly (ADP-Ribose) polymerase-1 (PARP-1) overactivity plays a pathogenic role in bile acids-induced nephrotoxicity in cholestatic rats. *Toxicology Letters*, 330, 144-158.

- 91- Heidari R, Mohammadi H, Ghanbarinejad V, Ahmadi A, Ommati MM, **Niknahad H**, Jamshidzadeh A, Azarpira N, Abdoli N. (2019). Proline supplementation mitigates the early stage of liver injury in bile duct ligated rats. *Journal of Basic and Clinical Physiology and Pharmacology* 31, 91-101.
- 90- Zia-Behbahania M, **Niknahad H**, Kojuri J, Salesi M, Jafari M, Khosro Keshavarz Kh. (2019). Tenecteplase Versus Reteplase in Acute Myocardial Infarction: A Network Meta-Analysis of Randomized Clinical Trials. *Iranian Journal of Pharmaceutical Research* 18 (3): 1622-1631.
- 88- Omidi M, **Niknahad H**, Noorafshan A, Fardid R, Nadimi E, Naderi S, Bakhtari A, Mohammadi-Bardbori A. (2019). Co-exposure to an Aryl Hydrocarbon Receptor Endogenous Ligand, 6-Formylindolo[3,2-b]carbazole (FICZ), and Cadmium Induces Cardiovascular Developmental Abnormalities in Mice. *Biological Trace Element Research* <https://doi.org/10.1007/s12011-018-1391-1>.
- 87- Mohammadi H, Ommati MM, Farshad O, Jamshidzadeh A, Nikbakht MR, **Niknahad H**, Heidari R. (2019). Taurine and Isolated Mitochondria: A Concentration-Response Study. *Trends in Pharmaceutical Sciences* 5(4): 197-206.
- 86- Ommati MM, Heidari R, Ghanbarinejad V, Abdoli N, **Niknahad H**. (2019). Taurine Treatment Provides Neuroprotection in a Mouse Model of Manganism. *Biological Trace Element Research* 190, 384–395.
- 85- Heidari R, Ahmadi F, Rahimi HR, Azarpira N, Hosseinzadeh M, Najibi A, **Niknahad H**. (2019). Exacerbated liver injury of antithyroid drugs in endotoxin-treated mice. *Drug and Chemical Toxicology* 42, 615-623.
- 84- Mousavi Mobarakeh K, Azarpira N, Mahboubi Z, **Niknahad H**, Heidari R. (2019). The potential role of mitochondrial impairment in the pathogenesis of imatinib-induced renal injury. *Heliyon* <https://doi.org/10.1016/j.heliyon.2019.e019965>.
- 83- Heidari R, Mandegani L, Ghanbarinejad V, Siavashpour A, Ommati MM, Azarpira N, Najibi A, **Niknahad H**. (2019). Mitochondrial dysfunction as a mechanism involved in the pathogenesis of cirrhosis-associated cholemic nephropathy. *Biomedicine and Pharmacotherapy* 109, 271-280.
- 82- Ommatia MM, Farshad O, **Niknahad H**, Arabnezhad MR, Azarpira N, Mohammadi HR, Haghnegahdar M, Mousavi K, Akrami S, Jamshidzadeh A, Heidari R. (2019). Cholestasis-associated reproductive toxicity in male and female rats: The fundamental role of mitochondrial impairment and oxidative stress. *Toxicology Letters* 316, 60-72.
- 81- Ghanbarinejad V, Ahmadi A, **Niknahad H**, Ommati MM, Heidari R. (2019). Carnosine Mitigates Manganese Mitotoxicity in an In Vitro Model of Isolated Brain Mitochondria. *Advanced Pharmaceutical Bulletin* 9, 294-301.
- 80- Heidari R, Arabnezhad MR, Ommati MM, Azarpira N, Ghodsimanesh E,

**Niknahad H.** (2019). Boldine Supplementation Regulates Mitochondrial Function and Oxidative Stress in a Rat Model of Hepatotoxicity. *Pharmaceutical Sciences* 2019, 25, 1-10

79- Heidari R, Jamshidzadeh A, OmmatiMM, Rashidi E, Khodaei F, Sadeghi A, Hosseini A, **Niknahad H.** (2019). Ammonia-induced mitochondrial impairment is intensified by manganese co-exposure: relevance to the management of subclinical hepatic encephalopathy and cirrhosis-associated brain injury. *Clinical and Experimental Hepatology* 5, 109-117.

78- Heidari R., **Niknahad H.** (2019). The Role and Study of Mitochondrial Impairment and Oxidative Stress in Cholestasis. (BOOK) Chapter 8, Page 117-132. Mathieu Vinken (ed.), *Experimental Cholestasis Research, Methods in Molecular Biology*, vol. 1981, Springer Nature 2019. <https://doi.org/10.1007/978-1-4939-9420-5-8>, © Springer Science+Business Media, LLC, part of Springer Nature 2019.

77- Heidari R, Ahmadi A, Mohammadi HR, Ommatia MM, Azarpira N, **Niknahad H.** (2018). Mitochondrial dysfunction and oxidative stress are involved in the mechanism of methotrexate-induced renal injury and electrolytes imbalance. *Biomedicine and Pharmacotherapy* 107, 834-840.

76- Ommatia MM, Heidari R, Ghanbarinejad V, Abdoli N, **Niknahad H.** (2018). Taurine Treatment Provides Neuroprotection in a Mouse Model of Manganism. *Biological Trace Element Research* <https://doi.org/10.1007/s12011-018-1552-2>

75- Heidari R, Mohammadi HR, Ghanbarinejad V, Ahmadi A, Ommatia MM, **Niknahad H.**, Jamshidzadeh A, Azarpira N, Abdoli N. (2018). Proline supplementation mitigates the early stage of liver injury in bile duct ligated rats. *Journal of Basic and Clinical Physiology and Pharmacology* 30,

74- Heidari R, Ommati MM, Alahyari S, Azarpira N, **Niknahad H.** (2018). Amino Acid-Containing Krebs-Henseleit Buffer Protects Rat Liver in a Long-Term Organ Perfusion Model. *Pharmaceutical Sciences* 24, 168-179.

73- Heidari R, **Niknahad H.**, Sadeghi A, Mohammadi HR, Ghanbarinejad V, Ommatia MM, Hosseini A, Azarpira N, Khodaei F, Farshad O, Rashidi E, Siavashpour A, Najibi A, Ahmadi A, Jamshidzadeh A. (2018). Betaine treatment protects liver through regulating mitochondrial function and counteracting oxidative stress in acute and chronic animal models of hepatic injury. *Biomedicine and Pharmacotherapy* 103: 75-86.

72- Heidari R, Ghanbarinejad V, Mohammadi HR, Ahmadi A, Esfandiari A, Azarpira N, **Niknahad H.** (2018). Dithiothreitol supplementation mitigates hepatic and renal injury in bile duct ligated mice: Potential application in the treatment of cholestasis-associated complications. *Biomedicine and Pharmacotherapy* 99: 1022-1032.

- 71- Heidari R, Ahmadi F, Rahimi HR, Azarpira N, Hosseinzadeh M, Najibi A, **Niknahad H.** (2018). Exacerbated liver injury of antithyroid drugs in endotoxin-treated mice. *Drug and Chemical Toxicology* <https://doi.org/10.1080/01480545>. 2018. 1459668
- 70- Heidari R, Jafari F, Khodaei F, Shirazi Yeganeh B, **Niknahad H.** (2018). Mechanism of valproic acid-induced Fanconi syndrome involves mitochondrial dysfunction and oxidative stress in rat kidney. *Nephrology* 23: 351-361.
- 69- Heidari R, Ghanbarinejad V, Ommati MM, Jamshidzadeh A, **Niknahad H.** (2018). Mitochondria protecting amino acids: Application against a wide range of mitochondria-linked complications. *Pharma Nutrition* 6: 180-190.
- 68- Heidari R, Ghanbarinejad V, Mohammadi HR, Ahmadi A, Ommati MM, Abdoli N, Aghaei F, Esfandiari A, Azarpira N, **Niknahad H.** (2018). Mitochondria protection as a mechanism underlying the hepatoprotective effects of glycine in cholestatic mice. *Biomedicine and Pharmacotherapy* 97: 1086-1095.
- 67- Heidari R, Ahmadi A, Mohammadi HR, Ommati MM, Azarpira N, **Niknahad H.** (2018). Mitochondrial dysfunction and oxidative stress are involved in the mechanism of methotrexate-induced renal injury and electrolytes imbalance. *Biomedicine and Pharmacotherapy* 107:834-840.
- 66- Heidari R, Abdoli N, Ommati MM, Jamshidzadeh A, **Niknahad H.** (2018). Mitochondrial Impairment Induced by Chenodeoxycholic Acid: The Protective Effect of Taurine and Carnosine Supplementation. *Trends in Pharmaceutical Sciences* 4(2): 99-108.
- 65- Heidari R, Jagari F, Khodaei F, Shirazi Yeganeh B, - **Niknahad H.** (2018). The mechanism of valproic acid-induced fanconi syndrome involves mitochondrial dysfunction and oxidative stress in rat kidney. *Nephrology* 23(4):351-361.
- 64- Heidari R, Mohammadi HR, Ghanbarinejad V, Ahmadi A, Ommati MM, **Niknahad H.**, Jamshidzadeh A, Azarpira N, Abdoli N. (2018). Proline supplementation mitigates the early stage of liver injury in bile duct ligated rats. *Journal of Basic and Clinical Physiology and Pharmacology*
- 63- Heidari R, Ghanbarinejad V, Ommati MM, Jamshidzadeh A, **Niknahad H.** (2018). Regulation of Mitochondrial Function and Energy Metabolism: A Primary Mechanism of Cytoprotection Provided by Carnosine. *Trends in Pharmaceutical Sciences* 4(1): 41-50.
- 62- Ommati MM, Jamshidzadeh A, **Niknahad H.**, Mohammadi HR, Sabouri S, Heidari Abdoli N. (2017). N-acetylcysteine treatment blunts liver failure-associated impairment of locomotor activity. *Pharma Nutrition* 5: 141-147.
- 61- **Niknahad H.**, Jamshidzadeh A, Heidari R, Zarei M, Ommati MM. (2017). Ammonia-induced mitochondrial dysfunction and energy metabolism disturbances in

isolated brain and liver mitochondria, and the effect of taurine administration: relevance to hepatic encephalopathy treatment. *Clinical and Experimental Hepatology* 3: DOI:<https://doi.org/10.5114/ceh.2017.68833>. published 5.7.2017

60- Jamshidzadeh A, Abdoli N, **Niknahad H**, Azarpira N, Mardani E, Mousavi S, Abasvali M, Heidari R. (2017). Taurine alleviates brain tissue markers of oxidative stress in a rat model of hepatic encephalopathy. *Trends in Pharmaceutical Sciences* 3(3) 181-192.

59- Jamshidzadeh A, Abdoli N, **Niknahad H**, Azarpira N, Mousavi S, Mardani E, Abasvali M, Heidari R. (2017). Carnosine supplementation mitigates brain tissue markers of oxidative stress in a rat model of fulminant hepatic failure. *Trends in Pharmaceutical Sciences* 3(3) 149-160.

58- **Niknahad H**, Hosseini H, Gozashtegan F, Ebrahimi F, Azarpira N, Abdoli N, Heidari R. (2017). The hepatoprotective role of thiol reductants against mitoxantrone-induced liver injury. *Trends in Pharmaceutical Sciences* 3(2) 113-122.

57- Najafi N, Heidari R, Jamshidzadeh A, Fallahzadeh H, Omidi M, Abdoli N, Najibi A, Azarpira N, , **Niknahad H**. (2017). Valproic acid-induced hepatotoxicity and the protective role of thiol reductants. *Trends in Pharmaceutical Sciences* 3(2) 63-70.

56- Jamshidzadeh A, **Niknahad H**, Heidari R, Azadbakht M, Khodaei F, Arabnezhad MR, Farshad O. (2017). Propylthiouracil-induced mitochondrial dysfunction in liver and its relevance to drug-induced hepatotoxicity. *Pharmaceutical Sciences* 23: 95-102.

55- Jamshidzadeh A, **Niknahad H**, Heidari R, Zarei M, Ommati MM, Khodaie F. (2017). Carnosine protects brain mitochondria under hypetammonemic conditions: relevance to hepatic encephalopathy treatment. *Pharma Nutrition* 5: 58-63.

54- **Niknahad H**, Heidari R, Firuzi R, Abazari F, Ramezani M, Azarpira N, Hosseinzadeh M, Najibi A, Saeedi A. (2016). Concurrent inflammation augments antimalarial drug-induced liver injury in rats. *Advanced Pharmaceutical Bulletin* 6(4): 617-625.

53- **Niknahad H**, Jamshidzadeh A, Heidari R, Abzari F, Abdoli N, Ommati MM, Jafari F, Zarei M, Asadi B. (2016). The postulated hepatotoxic metabolite of methimazole causes mitochondrial dysfunction and energy metabolism disturbances in liver. *Pharmaceutical Sciences* 22: 217-226.

52- Heidari R, Jamshidzadeh A, **Niknahad H**, Safari F, Azizi H, Abdoli N, Ommati MM, Khodaie F, Saeedi A, Najibi A. (2016). The hepatoprotection provided by taurine and glycine against antineoplastic drugs induced liver injury in an ex vivo model of normothermic recirculating isolated perfused rat liver. *Trends in Pharmaceutical Sciences* 2(1) 59-67.

- 51- **Niknahad H**, Heidari R, Mokhtbaz T, Mansouri S, Dehshahri S, Abdoli N, Azarpira N, Najibi A. (2016). Evaluating the effect of different fractions obtained from *Gundelia tourenfortii* extract against carbon tetrachloride-induced liver injury in rats. *Trends in Pharmaceutical Sciences* 2(1) 25-34.
- 50- Heidari R, Jamshidzadeh A, **Niknahad H**, Mardani E, Ommati MM, Azarpira N, Khodaie F, Zarei A, Ayarzadeh M, Mousavi S, Abdoli N, Shirazi Yeghaneh B, Saeedi A, Najibi A. (2016). Effect of taurin on chronic and acute liver injury: focus on blood and brain ammonia. *Toxicology Reports* 3: 870-879.
- 49- Heidari R, Rasti M, Shirazi Yeghaneh B, **Niknahad H**, Saeedi A, Najibi A. (2016). Sulfasalazine-induced renal and hepatic injury in rats and the protective role of taurine. *Bioimpacts* 6: 3-8.
- 48- Najibi A, Heidari R, Zarifi J, Jamshidzadeh A, Firoozabadi N, **Niknahad H**. (2016). Evaluating the role of drug metabolism and reactive intermediates in trazodone-induced cytotoxicity towards freshly isolated rat hepatocytes. *Drug Research (Stuttg)* 66(11): 592-596
- 47- **Niknahad H**, Jamshidzadeh A, Heidari R, Hosseini Z, Mobini K, Khodaie F, Ommati MM, Abdoli N, Keshavarz N, Bazyari M, Najibi A. (2016). Paradoxical effect of methimazole on liver mitochondria: in vitro and in vivo. *Toxicology letters* 259: 108-115.
- 46- Heidari R, Esmailie N, Azarpira N, Najibi A, **Niknahad H**. (2016). Effect of thiol-reducing agents and antioxidants on sulfasalazine-induced hepatic injury in normometric recirculating isolated perfused rat liver. *Toxicological Research* 32: 133-140.
- 45- Heidari R, Sadeghi N, Azarpira N, **Niknahad H**. (2015). Sulfasalazine-induced hepatic injury in an Ex vivo model of isolated perfused rat liver and the protective role of taurine. *Pharmaceutical Sciences* 21: 211-219.
- 44- **Niknahad H**, Heidari R, Alzuhairi AM, Najibi A. (2015). Mitochondrial dysfunction as a mechanism for pioglitazone-induced injury toward HepG2 cell line. *Pharmaceutical Research* 20: 169-174.
- 43- Heidari R, Taheri V, Rahimi HR, Shirazi Yeganeh B, **Niknahad H**, Najibi A (2015). Sulfasalazine-induced renal and injury in rats and protective role of thiol-reductants. *Renal Failure* DOI: 10.3109/0886022X.2015.1096731 Rearly online: 1-5
- 42- Moezzi L, Hosseini M, Oveisi S, **Niknahad H**, Shafaroodi H. (2015). The effect of sub-chronic treatment with aripiprazole on pentylenetetrazole- and electroshock-induced seizures in mice: the role of nitric oxide. *Pharmacology* 95: 264-70.
- 41- Rezaiean Mehrabadi A, Jamshidzadeh A, Rashedinia M, **Niknahad H** (2015). Study of the effects of ATP suppliers and thiol reductants on toxicity of pioglitazone in isolated rat liver mitochondria. *Iranian J Pharm Res* 14 (3): 825-832.

- 40- Heidari R, **Niknahad H**, Jamshidzadeh A, Azarpira N, Bazyari M, Asma A. (2015) Carbonyl traps as potential protective agents against methimazole-induced liver injury. *J Biochem Molecul Toxicol* 29(4): 173-181.
- 39- Shafaroodi H, Oveisi S, Hosseini M, **Niknahad H**, Leila Moezi L, (2015). The effect of acute aripiprazole treatment on chemically and electrically induced seizures in mice: The role of nitric oxide. *Epilepsy Behavior* 48: 35-40.
- 38- Heidari R, **Niknahad H**, Jamshidzadeh A, Eghbal MA, Abdoli N, (2015). An overview on the proposed mechanisms of antithyroid drugs-induced liver injury. *Adv Pharm Bull*, 2015, 5(1): 1-11.
- 37- Mohammadi-Bardbori A, Najibi A, Amirzadegan N, Gharibi R, Dashti A, Omidi M, Saeedi A, Ghafarian-Bahreman A, **Niknahad H**. (2015). Coenzyme Q10 remarkably improves the bio-energetic function of rat liver mitochondria treated with statins. *European Journal of Pharmacology* **762**, 270-274.
- 36- Heidari R, **Niknahad H**, Jamshidzadeh A, Abdoli N, (2014). Factors affecting drug-induced liver injury: antithyroid drugs as instances. *Clinical and Molecular Hepatology* 20:237-248.
- 35- H Aghdai M, Jamshidzadeh A, Nematizadeh M, Behzadiannia M, **Niknahad H**, Amirghofran Z, Esfandiari E, Azarpira N, (2013). Evaluating the effects of dithiothreitol and fructose on cell viability and function of cryopreserved primary rat hepatocytes and HepG2 cell line. *Hepat Mon.* :13(1): 1-6.
- 34- Moezi L, Akbarian R, Niknahad H, Hamed Shafaroodi, (2013). The interaction of adenosine and morphine on pentylenetetrazole-induced seizure threshold in mice. *Neuropharmacology* 72: 1-8.
- 33- Banani A, Maleki-Dizaji N, **Niknahad H**, Garjani A, Ziaee M, Ghavimi H, Hamedeyazadan S, Garjani A, (2012). N-acetylaspartylglutamate (NAAG) exhibits anti-inflammatory effects on carrageenan-induced paw edema model of inflammation of rats. *African J Pharm Pharmacol* **6**, 1702-1709.
- 32- **Niknahad H**, O'Brien PJ, (2012). Metabolism and cytotoxic mechanisms of nitroglycerin in isolated rat hepatocytes. *Iranian J Pharm Sci* **8**, 105-113.
- 31- Hosseini SV, **Niknahad H**, Fakhar N, Rezaianzadeh A, Mehrabani D, (2011). The healing effect of mixture of honey, putty, vitriol and olive oil in *Pseudomonas aeruginosa* infected burns in experimental rat model. *Asian J Animal and Vet Adv* **6**, 572-579.
- 30- Khoshnoud MJ, Abde Moghbel BA, Geramizadeh B, **Niknahad H** (2011). Effect of Simvastatin on cisplatin-induced nephrotoxicity in male rats. *Iranian J Pharm Sci* **7**, 165-173.



- 29- Adeli A, Zarrindast MR, **Niknahad H**, Sarkar S, Arbabi Bidgoil S, Korani M, Ghasemzade P, Rezayat SM, (2011). Protective effect of a magnesium magnetic isotope-exchanging nanoparticle on mitochondrial functional disorders in esmolol-induced cardiac arrest in rats. *Autonomic Autocoid Pharmacol* Oct 28, 2011.
- 28- Tammadon AM, **Niknahad H**, Nikraves M, (2011). Effect of helper lipids on stability and transfection activity of lyophilized lioplex formulations of antisense and DOTAP nanoliposomes. *Iranian J Pharm Sci* **7**, 79-87.
- 27- **Niknahad H**, Taghdiri A, Mohammadi-Bardbori A, Rezaeian Merabadi A, (2010). Protective effect of captopril against doxorubicin-induced oxidative stress in isolated rat liver mitochondria. *Iranian J Pharm Sci* **6**, 91-98.
- 26- Jamshidzadeh A, **Niknahad H**, Mohammadi-Bardbori A, Talati M, (2009). Comparative measurement of serum acetyl cholinesterase enzyme using three different methods. *Iranian J Toxicol* **2**, 268-272.
- 25- Jamshidzadeh A, **Niknahad H**, Azarpira N, Mohammadi-Bardbori A, Delnavaz M, (2009). Effect of Lycopene on cyclophosphamide-induced hemorrhage cystitis in rats. *Iranian J Med Sci* **34**, 46-52.
- 24- Namazi S, **Niknahad H**, Razamkhah H, (2009). Long-term complications of sulfur mustard poisoning intoxicated Iranian veterans. *J Med Toxicol*. 191-195.
- 23- Jamshidzadeh A, Hosseinaghdaie M, **Niknahad H**, Nematizadeh M, (2009). Effect of dithioeritol on viability of cryopreserved rat hepatocytes. *DARU* **17**, 187-191.
- 22- Jamshidzadeh A, Baghban M, Azarpira N, Mohammadi Bardbori A., **Niknahad H**, (2008). Effect of tomato extract on oxidative stress induced toxicity in different organs of rats. *Food Chem. Toxicol.* **46**, 3512-3615.
- 21- **Niknahad H**, O'Brien PJ, (2008). Mechanism of sulfite cytotoxicity in isolated rat hepatocytes. *Chemico-Biol. Interact.* **174**, 147-154.
- ۲۰- اکرم جمشیدزاده، حسین نیکنهاد، فاطمه فریدونی. بررسی اثر حفاظتی گیاه شاتره در برابر سمیت کبدی تنرا کلرید کرین بر روی سلولهای کبدی موش صحرائی. مجله علوم پایه پزشکی ایران، جلد ۸، شماره ۲، تابستان ۱۳۸۴.
- 19- Jamshidzadeh A., Kashafi H, and **Niknahad H**. (2007). Cytotoxicity of chloroquine in isolated rat hepatocytes. *J. Appl. Toxicol.* **27**, 322-326.
- 18- Ghasemi Y, Tabatabaei Yazdi M, Dehshahri A, **Niknahad H**, Shokravi S, Amini M, Ghasemian A, Faramarzi MA, (2006). Algal transformation of hydrocortisone by the cyanobacterium *Nostoc ellipsosporum*. *Chem. Natur. Comp.* **42**, 702-705.

- 17- Jamshidzadeh A., Khoshnood M.J., Dehghani Z., and **Niknahad H.** (2006). Hepatoprotective activity of Cichorium intybus leaves extract against carbon tetrachloride induced toxicity. *Iranian J. Pharm. Res.* **5**, 41-46.
- 16- Jamshidzadeh, A., Fereidooni, F., Salehi, Z., and **Niknahad, H.** (2005). Hepatoprotective activity of *Gundelia tourenfortii*. *J. Ethnopharmacol.* **101**, 233-237.
- 15- Tabatabaei Yazdi, M., Ghasemi, Y, Ghasemian, A., Shokravi, S., **Niknahad, H.**, Amini, M, Dehshahri, A., and Faramazi, A. (2005). Bioconversion of hydrocortisone by cyanobacterium *Fischerella ambigua* PTCC 1635. *World J Microbiol. Biol.* **21**, 811-814.
- 14- **Niknahad, H.**, and O'Brien P.J. (2005). Involvement of cytochrome P-450 in n-butyl nitrite-induced hepatocyte cytotoxicity. *Iran. J. Pharm. Sci.* **1**, 13-20.
- 13- **Niknahad, H.**, Shuhender, S., Galati, G., Siraki, A., Easson, E., Poon, R., and O'Brien, P.J. (2003). Modulating carbonyl cytotoxicity in intact rat hepatocytes by inhibiting carbonyl metabolizing enzymes. II. Aromatic aldehydes. *Chemico-Biological Interactions.* **143-144**, 119-128.
- 12- **Niknahad, H.**, Siraki, A., Shuhender, A., Khan, S., Teng, S., Galati, G., Easson, E., Poon, R., and O'Brien, P.J. (2003). Modulating carbonyl cytotoxicity in intact rat hepatocytes by inhibiting carbonyl metabolizing enzymes. I. Aliphatic alkenals. *Chemico-Biological Interactions.* **143-144**, 107-117.
- 11- Miri, R, Javidnia, K., Kebriaiezadeh, A., **Niknahad, H.**, Shaygani, N., Semnianian, S., and Shafiee, A. (2003). Synthesis and evaluation of pharmacological activities of 3,4-dialkyl-1,4-dihydro-2,6-dimethyl-4-nitroimidazole-3,5-pyridine dicarboxylates. *Arch. Pharm. Med. Chem.*, **336(9)**, 422-428.
- 10- - Miri, R., **Niknahad, H.**, Vazin, A., Azarpira, A., and Shafiee, A., (2002). Synthesis and smooth muscle calcium channel antagonist effects of new derivatives of 1,4-dihydropyridine containing nitroimidazolyl substituent *DARU*, **10**, 130-136.
- 9- **Niknahad H.**, and Ghelichkhani E. (2002). Antagonism of cyanide poisoning by dihydroxyacetone. *Toxicol lett.* **132**, 95-100.
- 8- Miri, R., **Niknahad, H.**, Vesal, Gh. Shafiee, A., (2002). Synthesis and calcium channel antagonist activities of 3-nitrooxyalkyl, 5-alkyl 1,4-dihydro-2,6-dimethyl-4-(1-methyl-5-nitro-2-imidazolyl)-3,5-pyridine dicarboxylates , *IL FARMACO*, **57**, 123-128.
- 7- Huang J., **Niknahad H.**, Khan S., and O'Brien P.J. (1998). Hepatocyte-catalysed detoxification of cyanide by L- and D-cysteine. *Biochem. Pharmacol.* **55**, 1983-1990.
- 6- **Niknahad H.**, and O'Brien P.J. (1996). Antidotal effect of dihydroxyacetone against cyanide toxicity *in vivo*. *Toxicol. Appl. Pharmacol.* **138**, 186-191.

5- **Niknahad H.**, and O'Brien P.J. (1996). The involvement of nitric oxide in nitroprusside-induced hepatocyte cytotoxicity. *Biochem. Pharmacol.* **51**, 1031-39.

4- **Niknahad H.**, Khan S., and O'Brien P.J. (1995). Oxygen dependence of hepatocyte susceptibility to mitochondrial respiratory inhibitors. *Biochem. Pharmacol.* **50**, 1859-1865.

3- **Niknahad H.**, Khan S., and O'Brien P.J. (1995). Hepatocyte injury resulting from the inhibition of mitochondrial respiration at low oxygen concentrations involves reductive stress and oxygen activation. *Chemico - Biol. Interact.* **98**, 27-44.

2- **Niknahad H.**, and O'Brien P.J. (1995). Cytotoxicity induced by *N*-methyl-*N'*-nitro-*N*-nitrosoguanidine may involve S-nitrosylglutathione and nitric oxide. *Xenobiotica*, **25**, 91-101.

1- **Niknahad H.**, Khan. S., Sood C., and O'Brien P.J. (1994). Prevention of cyanide-induced cytotoxicity by nutrients in isolated rat hepatocytes. *Toxicol.Appl.Pharmacol.* **128**, 271-279.

#### ***B)PRESENTATIONS at Scientific Meetings***

71- Khabbaz Azar S, Moeen MR, Rezaeian Mehrabadi A, Rashedinia M, **Niknahad H.** Cytotoxicity of *Juniperus excels* and *Salvia Mirzayanii* extracts on HepG2 cells. 11<sup>th</sup> International congress of the Iranian Society of Toxicology, September 13-15, 2011, Mashhad, Iran. Abstract No. 45, page 33, Iranian J Basic Med Sci 14, Suppl. 1.

70- Abbasian M, Jamshidzadeh A, Rezaeian Mehrabadi A, **Niknahad H.** Hepatoprotective effect of pomegranate extract against CCl<sub>4</sub>-induced toxicity in HepG2 cells. 11<sup>th</sup> International congress of the Iranian Society of Toxicology, September 13-15, 2011, Mashhad, Iran. Abstract No. 40, page 31, Iranian J Basic Med Sci 14, Suppl. 1.

69- Rezaeian Mehrabadi A, Alzuhairi A, **Niknahad H.** Toxicity of pioglitazone on HepG2 cells. 11<sup>th</sup> International congress of the Iranian Society of Toxicology, September 13-15, 2011, Mashhad, Iran. Abstract No. 38, page 30, Iranian J Basic Med Sci 14, Suppl. 1.

68- Amrollahi Sharifabadi M, **Niknahad H.** Hepatotoxicity of silver nanoparticles in isolated perfused rat liver. 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 2010, Zanjan, Iran.

67- Rezaeian-Mehrabadi A, **Niknahad H.**, Jamshidzadeh A, Amrollahi Sharifabadi M, Abbasian M. Protective effect of ATP suppliers and thiol reductants on toxicity of pioglitazone in isolated rat liver mitochondria. 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 2010, Zanjan, Iran.

66- **Niknahad H**, Rezaeian-Mehrabadi A, Jahangiri F. Toxicity of nitrofurantoin in isolated rat liver mitochondria. 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 2010, Zanjan, Iran.

65- Nikravesht M, Golkar N, **Niknahad H**, Tamaddon A. Enhanced doxorubicin chemosensitivity of breast cancer cells by different lipoplexes against surviving mRNA. . 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 2010, Zanjan, Iran.

64- Jamshidzadeh A, Behzadiyannia M, **Niknahad H**, Amirghofran Z. Effect of dithiotreitol, fructose, and glucose on viability and function of cryopreserved HepG2 cells. 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 2010, Zanjan, Iran.

63- **Niknahad H**, Rashedinia M, Jamshidzadeh A. Antagonism of phosphine-induced cytotoxicity in HepG2 cell cultures by ATP suppliers. Eurotox 2010, July 17-21, 2010, Barcelona, Spain. Abstract No. S-312, Toxicology Letters, 196S, page s312-3

62. - Jamshidzadeh A, Hosseinaghdaie M, **Niknahad H**, Nematizadeh M, Effect of dithioeritol on viability of cryopreserved rat hepatocytes. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. P-66, Abstract book, page 94.

61. Jamshidzadeh A, **Niknahad H**, Akbarpour S, Khabbazazar S, Hepatoprotective effects of Cichorium intybus fractions in rats. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. P-64, Abstract book, page 92.

60. Rezaeian Mehrabadi A, Jamshidzadeh A, Niknahad H, Amrollahi M, Rashedinia M, Khabbazazar S, Effects of ATP suppliers and thiol reductants on toxicity of pioglutazone on rat liver mitochondria. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. O-61, Abstract book, page 183.

59. Amrollahi M, Aram K, Niknahad H. Role of Cyp inhibitors and thiol reductants on trazodone-induced hepatotoxicity in rats. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. P-58, Abstract book, page 86.

58. Jamshidzadeh A, Niknahad H, Azarpira N, Mohammadi-Bardbori A, Delnavaz M. Effect of lycopene on cyclophosphamide-induced hemorrhagic cystitis in rats. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. O-20, Abstract book, page 23.

57. Rashedinia M, Jamshidzadeh A, **Niknahad H**, Tafti AK, Ahmadi M. Hepatoprotective effects of Fumaria parviflora L. fractions on male rat. 10<sup>th</sup> Iranian Congress of Toxicology and Poisoning, May 18-20, 2009, Tehran, Iran. Abstract No. O-18, Abstract book, page 21.

56. Eftekharian Jahromi HR, **Niknahad H.**, Samsami A. The role of tranexamic acid in management of uterine atony during cesarean delivery. 11<sup>th</sup> International congress of gynecology and obstetrics, October 18-21, 2008, Tehran, Iran. Abstract book, page 75.
55. Jamshidzadeh A, **Niknahad H.**, Mohammadi-Bardbori A, Talati M. Comparative measurement of serum acetyl cholinesterase enzyme using three different methods. Eurotox 2008, October 5-8, 2008, Rhodes, Greece. Abstract No. Z-34, Toxicology Letters, 180S, page s237.
54. **Niknahad H.**, Jamshidzadeh A, Masoudi, SM, Azarpira N. Protective effect of thiol reductants against hepatotoxicity of azathioprine. Eurotox 2008, October 5-8, 2008, Rhodes, Greece. Abstract No. T-31, Toxicology Letters, 180S, page s53,s54.
53. Jamshidzadeh A, **Niknahad H.**, Firoozabadi N. Hepatoprotective effect of grape seed extract on rat liver. Eurotox 2008, October 5-8, 2008, Rhodes, Greece. Abstract No. T-19, Toxicology Letters, 180S, page s50.
52. **Niknahad H.**, Jamshidzadeh A, Baghban M, Azarpira N. Protective effect of tomato extract against amiodarone-induced hepatotoxicity in rats. 11<sup>th</sup> Iranian pharmaceutical sciences conference. August 18-21, 2008, Kerman, Iran. Abstract No. P-673, Iranian J Pharm Sci, 4(3), Suppl. 1, page 370.
51. Jamshidzadeh A, Fallahzadeh F, **Niknahad H.** Effect of grape seed extract on lipopolysaccharide-induced hepatotoxicity. 11<sup>th</sup> Iranian pharmaceutical sciences conference. August 18-21, 2008, Kerman, Iran. Abstract No. P-645, Iranian J Pharm Sci, 4(3), Suppl. 1, page 356.
50. **Niknahad H.**, Jamshidzadeh A, Baghban M, Azarpira N. Protective effect of tomato extract against acetaminophen-induced hepatotoxicity in vivo in rats. 11<sup>th</sup> Iranian pharmaceutical sciences conference. August 18-21, 2008, Kerman, Iran. Abstract No. O-67, Iranian J Pharm Sci, 4(3), Suppl. 1, page 50.
49. **Niknahad H.**, O'Brien PJ. Cytotoxic mechanisms of polyphenolic natural anticancer agents. 11<sup>th</sup> Iranian pharmaceutical sciences conference. August 18-21, 2008, Kerman, Iran. Abstract No. L-18, Iranian J Pharm Sci, 4(3), Suppl. 1, page 10.
- 48- **Niknahad, H.**, Jamshidzadeh, A., Shafiee, K. Increased resistance of freshly isolated hepatocytes to damage in cryopreservation process by preincubation with ATP suppliers and antioxidants. 18<sup>th</sup> Iranian Congress of Physiology and Pharmacology, August 26-30, 2007, Mashhad, Iran. Abstract Book. O-880, Page 220.
- 47- **Niknahad H.**, Dehshahri A., Ghasemian, A., Ghasemi Y., Tabatabaee Yazdi, M. Biotransformation of hydrocortisone by *Nostoc liposporum*. 13<sup>th</sup> International Symposium on toxicity assessment. August 19-24, 2007, Toyama, Japan. Abstract Book. P B31, Page 132.

- 46- **Niknahad, H.**, Jamshidzadeh, A, Ahmadi, S.M. Hepatoprotective effect of *Fumaria parviflora* L. extract against carbon tetrachloride induced toxicity in rats. 3<sup>rd</sup> International Congress on Traditional Medicine and Materia Medica. July 17-20, 2007, Kuala Lumpur, Malaysia. Abstract Book, P 37, Page 96.
- 45- Jamshidzadeh, A., Hkoshnood, M.J., **Niknahad, H.** Hepatoprotective activity of *Chichorium intybus* L. leaves extract against carbon tetrachloride induced toxicity. 3<sup>rd</sup> International Congress on Traditional Medicine and Materia Medica. July 17-20, 2007, Kuala Lumpur, Malaysia. Abstract Book, P 30, Page 92.
44. Jamshidzadeh A, **Niknahad H.** Hepatoprotective effect of *Berberis integerrima* Bge extract in rats treated with CCl<sub>4</sub>: *in vitro* and *in vivo* studies. Eurotox 2006, September 20-24, 2006, Cavtat, Croatia. Abstract No. P26-16, Toxicology Letters, 164S, page s310.
43. **Niknahad H.**, Parsa M., Jamshidzadeh A. Hepatoprotective effect of thiol reductants against toxicity of azathiopurine. Eurotox 2006, September 20-24, 2006, Cavtat, Croatia. Abstract No. P7-16, Toxicology Letters, 164S, page s137.
- 42- **Niknahad, H.**, Jamshidzadeh, A., Parsa, M. Hepatoprotective effect of thiol reductants against cytotoxicity of azathioprine in isolated rat hepatocytes. 10<sup>th</sup> Iranian Pharmaceutical Sciences Conference, August 21-24, 2006, Tehran, Iran. Iranian Journal of Pharmaceutical Sciences, Vol. 2, No. 2., Suppl. 1, P 234, Page 148.
- 41- Ghalandari, R., **Niknahad, H.** Formulation of oral and parenteral forms of dihydroxyacetone as an antidote for cyanide. 10<sup>th</sup> Iranian Pharmaceutical Sciences Conference, August 21-24, 2006, Tehran, Iran. Iranian Journal of Pharmaceutical Sciences, Vol. 2, No. 2., Suppl. 1, P 31, Page 51.
- 40- **Niknahad H**, Jamshidzade A, Fereidooni F, Salehi Z. Hepatoprotective activity of *Gundelia tourenfortii*. 12<sup>th</sup> International symposium on toxicity assessment. June 12-17, 2005, Skiatos, Greece, Proceedings, Page 21.
- 39- **Niknahad, H.**, Azadbakht, M., Pejmanfar, N. Toxicity of the extracts of *Amygdalus Scoporia* seeds. Medicine and health in the tropics, September 11-15, 2005, Marseille, France, Abstract Book, Page 273, P632.
- 38- **Niknahad, H.**, Jokar, F., Alborzi, A., Panjeshahin, M.R. Antileishmanial effect of Harmalin *in vivo*. Medicine and health in the tropics, September 11-15, 2005, Marseille, France, Abstract Book, Page 191, P271.
- 37- **Niknahad, H.**, Fereidooni, F., and Jamshidzadeh, A. Protective effect of *Gundelia Tourenfortii* against CCl<sub>4</sub> induced cytotoxicity in isolated rat hepatocytes. ICTX-2004, July 11-15, 2004, Tampere, Finland. Abstract No. 665, Toxicol. Appl. Pharmacol. 197(3), page 302.
- 36- **Niknahad, H.**, and O'Brien, P.J. Metabolism and cytotoxic mechanisms of salicylaldehyde in isolated rat hepatocytes. Eurotox 2003, September 28-October 1,

2003, Florence, Italy. Abstract No. 202, Toxicology Letters, 144, supplement 1, page s58.

35- Jamshidzadeh, A., **Niknahad, H.**, Eskandari, B., and Mohammadi, M. Hepatotoxicity of nonsteroidal anti-inflammatory drugs in freshly isolated rat hepatocytes. Eurotox 2003, September 28-October 1, 2003, Florence, Italy. Abstract No. 359, Toxicology Letters, 144, supplement 1, page s97.

34- **Niknahad, H.**, and O'Brien, P.J. Cytotoxic mechanism and metabolism of cinnamaldehyde in isolated rat hepatocytes. 51th Annual Congress of the Society for Medicinal Plant Research. August 31-September 4, 2003, Kiel, Germany. Abstract No. SL 39.

33- **Niknahad, H.**, and O'Brien, P.J. Modulating aromatic aldehydes cytotoxicity in isolated rat hepatocytes by inhibiting carbonyl metabolizing enzymes. 8<sup>th</sup> Iranian Seminar of Pharmaceutical Sciences, August 27-29, 2002, Shiraz, Iran. Abstract No. 396

32- Bahri Najafi, R., **Niknahad, H.**, and NejadSadeghi, H.R. In use microbial contamination of intravenous fluids at Shiraz Nemazi Hospital. 8<sup>th</sup> Iranian Seminar of Pharmaceutical Sciences, August 27-29, 2002, Shiraz, Iran. Abstract No. 319.

31- Adeli, S. , and **Niknahad, H.** Determination of toxic amounts of arsenic in eye shadows in Iran. 14<sup>th</sup> International Congress of Geographic Medicine and 15<sup>th</sup> Iranian Congress of Physiology and Pharmacology, November 5-8, 2001, Shiraz, Iran. Abstract No. P-2-117.

30- Miri, R., **Niknahad, H.**, Shaygani, N., and Shafiee, A. Study of pharmacological activities of alkyl, aminoalkyl(aryl piperazinyl) 1,4-dihydro-2,6-dimethyl-4-nitroimidazole-3,5-pyridine dicarboxylates. 14<sup>th</sup> International Congress of Geographic Medicine and 15<sup>th</sup> Iranian Congress of Physiology and Pharmacology, November 5-8, 2001, Shiraz, Iran. Abstract No. P-3-36.

29- Nourani Khojasteh, H., **Niknahad, H.**, and Mirhosseini, F. Emergent use of arsenic trioxide with conventional chemotherapy in patients with resistant acute myeloid leukemia, a local experience. 14<sup>th</sup> International Congress of Geographic Medicine and 15<sup>th</sup> Iranian Congress of Physiology and Pharmacology, November 5-8, 2001, Shiraz, Iran. Abstract No. P-4-35.

28- Azadbakht, M., **Niknahad, H.**, and Pirahmadian, M.H. Acute toxicity of digitalis nervosa leaves extract in mice. . Eurotox 2001, September 13-16, 2001, Istanbul, Turkey. Abstract No. 217, Toxicology Letters, 123, supplement 1, page 59.

27- **Niknahad, H.**, Tabaei S.M.H., and Tamadon, M. Dechlorination of DDT and study of toxicity of its reduced derivatives in vivo in mice. Eurotox 2001, September 13-16, 2001, Istanbul, Turkey. Abstract No. 240, Toxicology Letters, 123, supplement 1, page 65.

- 26- **Niknahad, H.**, and O'Brien, P.J. Effect of Nitroglycerin on isolated rat hepatocytes: metabolism and cytotoxic mechanisms. IXth International Congress of Toxicology. July 8-12, 2001, Brisbane, Australia, Abstract No. P4A35, Toxicology, 164 (1-3), page 196.
- 25- Miri, R., **Niknahad, H.**, Vesal, Gh. Shafiee, A. Synthesis and study of pharmacological effects of new derivatives of 1,4-dihydropyridine containing nitroxyalkyl substituent in guinea-pig ileal smooth muscle. 6th International Symposium on Pharmaceutical Sciences. June 27-29, 2000, Ankara, Turkey, Abstract No. P-126.
- 24- **Niknahad, H.**, Azadbakht, M., and Pejmanfar N. Toxicity of extracts of amygdalus scoloria seeds in vivo on mice. Second Workshop on Natural Toxins. November 12-15, 2000, Cairo, Egypt, Abstract No. 31.
- 23- **Niknahad, H.**, and O'Brien, P.J. Involvement of cytochrome P-450 in n-butyl nitrite-induced cytotoxicity. Eurotox 2000, September 17-20, 2000, London, England. Abstract No. 213, Toxicology letters, supplement 1/116, page 58.
- 22- Miri, R., **Niknahad, H.** Vazin, A., and Azarpira, A. Synthesis and calcium channel antagonist activity of new derivatives of 1,4-dihydropyridine as antihypertensive agent. 13<sup>th</sup> International Congress of Geographic Medicine and the Congress of Cardiovascular Diseases. October 2-5, 2000, Shiraz, Iran, Abstract No. 251.
- 21- Montaseri, H., Shahriari, M., Rezaie, D., Kaieni, M., Mohammadi Samani, S., and **Niknahad, H.** Preformulation and evaluation of butyric acid in treatment of beta-thalassemia. 7<sup>th</sup> Iranian Seminar of Pharmaceutical Sciences. August 26-28, 2000, Mashhad, Iran, Abstract No. 129.
- 20- Azadbakht, M., **Niknahad, H.**, Ghasemi, N., and Pirahmadian, M.H. Evaluation of digitalis nervosa extract in CHF. 7<sup>th</sup> Iranian Seminar of Pharmaceutical Sciences. August 26-28, 2000, Mashhad, Iran, Abstract No. 59.
- 19- **Niknahad H.**, Shademani S., and Pezeshkian S.H. Dental lead levels in 7-8 years-old children in Shiraz, Iran. The 4<sup>th</sup> Congress of Toxicology in Developing Countries. Nov. 6-10, 1999. Antalya, Turkey. Abstract No. P-088.
- 18- Jamshidzadeh A., Jalali N., Paghomand A., and **Niknahad H.** Clinical and socioeconomic features of acute insecticide poisoning in Tehran, Iran. The 4<sup>th</sup> Congress of Toxicology in Developing Countries. Nov. 6-10, 1999. Antalya, Turkey. Abstract No. P-125.
- 17- Mokhtarifard A., **Niknahad H.**, Dehghani G.R., and Alborzi, A. Determination of heavy metals concentration in the dietary bread of Shiraz city, Iran. The 4<sup>th</sup> Congress of Toxicology in Developing Countries. Nov. 6-10, 1999. Antalya, Turkey. Abstract No. P-150.



16- **Niknahad H.**, and Habibipoor F. Effect of cyanide-trapping agents on antihypertensive effect of nitroprusside. Eurotox'99, June 27-30, 1999. Oslo, Norway. Abstract No. p306 *Toxicology Letters Supplement 1/99*, page 99-100.

15- Miri R., Shafiee A., **Niknahad H.**, Mosavizadeh K., and Vazin A. Synthesis and study of pharmacological effects of new derivatives of nifedipine containing nitroimidazolyl and aminoalkyl substituent in guinea-pig ileal smooth muscle. 5<sup>th</sup> Seminar of Iranian Pharmacy Students. February 27-30, 1999. Tehran, Iran.

14- Miri R., Shafiee A., **Niknahad H.**, Mosavizadeh K., and Shaygani N. Synthesis and study of pharmacological effects of new derivatives of 4-nitroimidazolyl-1,4-dihydropyridine containing aliphatic alkylester substituent in guinea-pig ileal smooth muscle. 5<sup>th</sup> Seminar of Iranian Pharmacy Students. February 27-30, 1999. Tehran, Iran.

13- Miri R., Shafiee A., **Niknahad H.**, Mosavizadeh K., and Vesal Gh. Synthesis and study of pharmacological effects of new derivatives of 1,4-dihydropyridine containing nitroxyalkyl substituent in guinea-pig ileal smooth muscle. 5<sup>th</sup> Seminar of Iranian Pharmacy Students. February 27-30, 1999. Tehran, Iran.

12- **Niknahad H.**, and Ghelichkhani E. Antidotal effect of dihydroxyacetone against cyanide poisoning. 8<sup>th</sup> International Congress of Toxicology. July 5-9, 1998, Paris, France. *Abstract No. OPIG191. Toxicology Letters Supplement 1/95*, page 85.

11- O'Brien P.J, **Niknahad H.**, and Khan S. Molecular mechanisms of programmed cell death induced by toxins: the ATP-dependent redox switch that decides apoptosis or necrosis morphology. First International Congress of Asia-Pacific Association of Medical Toxicology and First Iranian Congress of Toxicology and Poisoning September 27-30, 1997. Tehran, Iran. *Abstract No. 172*.

10- **Niknahad H.**, and O'Brien P.J. Molecular mechanism of sulfite cytotoxicity in isolated rat hepatocytes. First International Congress of Asia-Pacific Association of Medical Toxicology and First Iranian Congress of Toxicology and Poisoning September 27-30, 1997. Tehran, Iran. *Abstract No. 13*.

9- **Niknahad H.** Molecular cytotoxic mechanism of nitric oxide-releasing compounds. The 5<sup>th</sup> Iranian Conference of Pharmaceutical Sciences. Aug. 9-10, 1997. Tehran, Iran. *Abstract No. S14*.

8- Quah L., **Niknahad H.**, Khan S. and O'Brien, P.J. Role of nonparenchymal cells in hepatotoxicity: a comparison of the oxidant cytotoxic mechanisms. CFBS (Canadian Federation of Biological Societies) 39<sup>th</sup> Annual Meeting. Ottawa, Canada, 1996.

7- **Niknahad H.**, Khan S. and O'Brien, P.J. The reversibility of cyanide-inhibited mitochondrial respiration may depend on the cytochrome oxidase oxidation state. CFBS (Canadian Federation of Biological Societies) 39<sup>th</sup> Annual Meeting. Ottawa, Canada, 1996.

6 - **Niknahad H.**, and O'Brien P.J. Antidotal effect of dihydroxyacetone on cyanide intoxication. 35<sup>th</sup> Annual Meeting of Society of Toxicology . March 10-14, 1996. Anaheim, CA, USA. *Abstract No.1338*.

5- **Niknahad H.**, and O'Brien P.J. Cytotoxicity induced by carcinogenic N-nitroso compounds is mediated by S-nitrosylglutathione. 86th Annual Meeting of American Association for Cancer Research. March 18-22, 1995. Toronto, Ontario, Canada, *Abstract No.2196*.

4- **Niknahad H.**, Khan S., and O'Brien P.J. Increased hepatocyte susceptibility to hepatotoxins and respiratory inhibitors at low oxygen concentrations. 12<sup>th</sup> International Congress of Pharmacology . July 24-29, 1994. Montreal, Canada, *Abstract No. P22.3.21. Can J Physiol Pharmacol, 72, 601*.

3- **Niknahad H.**, and O'Brien P.J. Cytotoxicity induced by N-methyl-N'-nitro-N-nitrosoguanidine may involve S-nitrosylglutathione and/or nitric oxide. Second Neuropharmacology Symposium: "Nitric Oxide in Nervous System". July 22-24, 1994. Saint- Sauveur , Qubec, Canada.

2- **Niknahad H.**, Khan S., and O'Brien P.J. Cytotoxicity resulting from respiratory inhibition is caused by reductive stress and oxygen radicals. International Symposium on "Free Radicals in Diagnostic Medicine". October 7-9, 1993. Buffalo, New York, USA.

1- **Niknahad H.**, Meloche B.A., and O'Brien P.J. Molecular cytotoxic mechanisms of nitrovasodilators in isolated rat hepatocytes. Annual Meeting of The Clinical Research Society of Toronto, April 12, 1992.

## **C) THESIS**

2- Ph.D. Thesis: **Hossein Niknahad 1996**. *Redox Stress Cytotoxicity by Mitochondrial Respiratory Inhibitors*. University of Toronto, Toronto, Ontario, CANADA.

1- Pharm.D. Thesis: **Hossein Niknahad,1988**. *Effect of 3- Aminopyridin on Autonomic Ganglions*. Tabriz University of Medical Sciences Tabriz, East Azarbiyjan, IRAN.

## **TEACHING EXPERIENCES**

1996- Present      Special English courses for pharmacy students.  
Drug Information courses for pharmacy students.  
Molecular biology courses for pharmacy students.  
Courses of toxicology for pharmacy students (theory and lab).  
Courses of Poison control for medical, nursing, and pharmacy students.

- Pharmacology of antimicrobial agents for pharmacy, medical and nursing students.  
Pharmacology of NSAIDs for pharmacy, medical and nursing students.  
*Shiraz University of Medical Sciences, Shiraz, Iran.*
- 1992-1996 Lectures on proteins & mitochondrial biochemistry for Pharmacy students,  
*University of Toronto , Toronto, Ontario, Canada.*
- 1989 - 1991 Pharmacology Lectures on nervous system for medical, Pharmacy, and nursing students.  
*Shiraz University of Medical Sciences, Shiraz, Iran.*

### **TECHNIQUES FOR RESEARCH EXPERIMENTS**

- 1992-1996 Preparation of Isolated Rat Hepatocytes (incubations, cultures).  
Preparation of Subcellular fractions (mitochondria, microsomes, cytosol, etc.).  
*In vivo* antidotal studies on different toxins.  
*Prof.P.J.O,Brien,s Lab, Faculty of Pharmacy, University of Toronto, Toronto, Ontario, Canada.*
- 1986-1988 Preparation of Pharmacological models for experiments on: Autonomic ganglions (nikitating member of cat), Striated muscles (in cat *in vivo*, chicken in organ bath), and smooth muscle (ileum of rat).  
*Prof.A. Ghandiha's lab, Faculty of Pharmacy, Tabriz University of Medial Sciences, Tabriz,Iran.*

### **CLINICAL EXPERIENCES**

- 1996- present Pharmacist of Motahhari Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.
- 1989 -1990 Head Pharmacist of Shiraz Drug store/ Shiraz,Iran.
- 1988- 1989 Head Pharmacist of Nemazi Hospital, Shiraz,Iran.

### **MEMBERSHIP**

- 1998-present European Society of Toxicology
- 1996- present American Society of Toxicology
- 1996- present Iranian Society of Toxicology
- 1995- present ISSX
- 1994- present American Association for Canccer Research (AACR)
- 1989- present Iranian Society of Physiology & Pharmacology

1988- present Iranian Society of Pharmacists