

## **CURRICULUM VITAE**

Date : June 2006  
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### **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**

1996-present Associate Professor and Dean of Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, IRAN.  
1988-1991 In charge of project of establishment of Faculty of Pharmacy in Shiraz University of Medical Sciences, Shiraz, IRAN.

### **PUBLICATIONS**

#### **A) PAPERS**

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., Kebriaiezhadeh, A., **Niknahad, H.**, Shaygani, N., Semnanian, 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**

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(arylpiperazinyl) 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 scoporina seeds in vivo in 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 citry, 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 nitimidazolyl 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 Azarbiyan, IRAN.

## **TEACHING EXPERIENCES**

- 1996- Present      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, Canda.*
- 1989 - 1991      Pharmacology Lectures on nervous system for medical, Pharmacy, and nursing students.  
*Shiraz University of Medical Sciences, Shiraz, Iran.*

## **TECNIQUES FOR RESEARCH EXPERIMENTS**

- 1992-1996      Preparation of Isolated Rat Hepatocytes (incubations, cultures).  
Preparation of Subcellular fractions (mitochondria, micosoms, 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 Cancer Research (AACR)  
1989- present Iranian Society of Physiology & Pharmacology  
1988- present Iranian Society of Pharmacists