

CURRICULUM VITAE

Dr. Ali Mandegary-Bamakan

Ph.D., Assistant Professor of Toxicology & Pharmacology

■ PERSONAL INFORMATION

- **Nationality** Iranian
 - **Birth Date** 14. 9. 1977
 - **Marital Status** Married
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■ ACADEMIC BACKGROUND

- **Ph.D. program** (in Toxicology & Pharmacology) **2003-2008**
 - Department of Toxicology and Pharmacology, Tehran University of Medical Sciences (TUMS), Tehran, Iran.
- **M. Sc. program** (in Medical Toxicology) **1999-2002**
 - Department of Forensic Medicine, Faculty of Medicine, Tehran University of Medical Sciences (TUMS), Tehran, Iran.
- **B.Sc. program** (in Biology) **1995-1999**
 - Department of Biology, Faculty of Sciences, University of Tehran, Tehran, Iran.
- **Diploma** (in Experimental Science) **1991-1995**
 - Allameh-Tabatabaei High School, Yazd, Iran.

■ THESIS

- **M.Sc. Thesis:** Ali Mandegary-Bamakan (2002) "Evaluation of the anticonvulsant, antinociceptive and anti-inflammatory activities of root and seed aqueous, methanol and acetone extracts of *Ferula gummosa* Boiss. in animal models of convulsion, pain and inflammation in rat and mice".
- **Ph.D. Thesis:** Mandegary-Bamakan (2008) "Study of toxicokinetic and toxic effects of arsenic trioxide in patients with acute promyelocytic leukemia (APL) and evaluation of PML/RAR α , Bcl2 and Bax expression and Caspase-3 activity during the treatment".

■ TEACHING EXPERIENCE

- **2002-2003** Toxicology and Pharmacology training, Pharm. D. program, Faculty of Pharmacy, Kerman University of Medical sciences, Kerman, Iran.
- **2003-2006** Toxicology and Pharmacology training, Pharm. D. program, Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran.
- **2009-present** Toxicology and Pharmacology training, Pharm. D. program, Faculty of Pharmacy, Kerman University of Medical sciences, Kerman, Iran.

■ AWARDS

- Membership of “Nokhbegan Foundation” of Iran.
- First-ranked winner of Razi International Festival of Medical Sciences in the top B.Sc. Course Thesis, 2005.
- The first order in Ph.D. entrance exam of Toxicology & Pharmacology in 2002.
- The first order in Ph.D. Board exam of Toxicology & Pharmacology in 2005.

■ GRANTS

- Research grant from Kerman University of Medical Sciences.

■ PROJECTS

1. Relation between UGT-1A9 polymorphisms and metabolism of Mycophenolate Mofetil in kidney transplanted non-diabetic patients. “*Technical Co-worker*”

2. Relation between CYP-2C9 and CYP2C19 polymorphisms and serum level of the hepatotoxic metabolite of Valproic acid. *“Technical Co-worker”*
3. The role of glutathione-S-transferase polymorphisms on clinical outcome of ALI/ARDS patient treated with N-acetylcysteine. *“Technical Co-worker”*
4. The role of Nitric oxide in glutathione synthesis during endotoxemia. *“Technical Co-worker”*
5. Effect of Arsenic Trioxide and Dexamethasone on the Proliferation, Differentiation, Cytotoxicity and Expression of p38 in NB4 Cell. *“Project manager”*
6. Expression of PML/RAR α , Bcl2 and Bax and Caspase-3 activity during the treatment with arsenic trioxide in patients with acute promyelocytic leukemia (APL). *“Project manager”*
7. Glutathione S-Transferase (GST) genotypes and genetic susceptibility in Acute Promyelocytic Leukemia (APL; AML-M3). *“Project manager”*
8. The effect of Indomethacin and dexamethasone on the cytotoxicity of arsenic trioxide on the A549 cell line and expression of MAPKs, Cox-2, p47^{phox} and Bax. *“Project manager”*
9. Glutathione-S-transferase polymorphisms and its relation to laboratory parameters and oxidative stress markers in workers in sour natural gas refinery plant. *“Project manager”*
10. NAD(P)H:quinone oxidoreductase (NQO1) polymorphism and its relation to laboratory parameters and oxidative stress markers in workers in sour natural gas refinery plant. *“Project manager”*
11. Genetic association of interleukin-6, tumor necrosis factor-alpha, tumor growth factor-beta and interferon gamma gene polymorphisms with allograft function in renal transplant patients. *“Project manager”*
12. Association of CCR2 and CCR5 chemokine genetic polymorphisms of donors and recipients with allograft function in renal transplantation in Afzali-pour Hospital, Kerman. *“Project manager”*

■ FIELD OF INTERESTS

- Study of relation between genetic polymorphisms in metabolizing enzymes (phase I and II) and treatment outcome
- Study of relation between genetic polymorphisms in metabolizing enzymes (phase I and II) and susceptibility to disease
- Investigation of cell signaling pathways involved in the effect/resistance of anti-cancer drugs, especially apoptosis and survival pathways (e.g. MAPKs)
- Combination therapy for cancer cell lines with focusing on Arsenic trioxide.

■ ATTENDANCE IN CONGRESS

1. **Mandegary, A.**, Hosseini, R., Ghaffari, SH., Alimoghaddam, K., Ghavamzadeh, A, and Ghahremani, MH. "Treatment of Newly Diagnosed Acute Promyelocytic Leukemia (APL) with Arsenic Trioxide; Clinical Efficacy, Safety and Molecular Analysis During Treatment" presented in 9th international Asian Pacific cancer Congress (APCC), Tehran, Iran, 2007.
2. **Mandegary, A.**, Sayyah, M and Kamalinejad, M. "*Evaluation of the Anticonvulsant Activity of the Methanol Extract of Ferula gummosa in Mice*" presented as a poster in 15th Iranian congress of Physiology & Pharmacology, Shiraz, Iran, Nov. 5-8, 2001.
3. **Mandegary, A.**, Sayyah, M, Kamalinejad, M and Heidari, M.R. "*Evaluation of the Antinociceptive and Anti-inflammatory Activity of the Seed and Roots Aqueous, Methanol and Acetone Extracts of Ferula gummosa Boiss. in Mice and Rats*" presented as lecture in 16th Iranian congress of Physiology & Pharmacology, Tehran, Iran, May 9-13, 2003.
4. Heidari, M.R, **Mandegary, A.**, and Kamalinejad, M. "*Evaluation of the Antinociceptive Effect and Histopathology of the Methanol Extract of Saturaja hortensis in Mice*" presented as lecture in 16th Iranian congress of Physiology & pharmacology, Tehran, Iran, May 9-13, 2003.
5. Abdi, Kh., **Mandegary, A.** and Amini, M. "*Determination of Cypermethrine, Diallylethrine, Tetramethrine and Piperonyl Butoxide by GC* " presented as poster in 8th Iranian congress of physiology & pharmacology, Tehran, Iran, December 6-8, 2004.

■ WORKSHOPS

- Workshop on “*Cellular and Molecular Methods In Pharmaceutical Sciences Research*”, National Center of Excellence of Toxicology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 2-7 December 2006 (As **Facilitator**).
- Workshop on “*Cellular and Molecular Methods In Cancer Research*”, National Center of Excellence of Toxicology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 17-22 June, 2006 (As **Facilitator**).
- Workshop on “*Cellular and Molecular Methods In Medical Nanotechnology Research*”, Medical Nanotechnology Research Center, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 12-17 August, 2006 (As **Facilitator**).
- Workshop on "*Ames Mutagenicity Test*", Molecular Research Lab. And Microbiology Lab., Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, March 2005.
- Workshop on "*Genotoxicity*", Molecular Research Lab., Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, May 2005.
- Workshop on "*Research Methods in Pharmaceutical Sciences*", Pharmaceutical Sciences Research Center, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, January 2004.
- Workshop on "*Scientific Writing*", Tehran University of Medical Sciences, Tehran, Iran, June 2005.

■ Courses in Foreign Universities

Six months period in the "Laboratory for Tumor Stem Cell Biology at the medical Clinic II, J. W. Goethe University, Frankfurt, Germany" and working on the topic of the effects of arsenic and of an a novel arsenic derivative on the Acute Promyelocytic leukemia (APL), AML1/ETO and DEK/CAN leukemic subtypes in the mouse.

■ Publications

[1], [2], [3],[4], [5], [6], [7-9], [10-12], [13, 14], [15, 16], [17]

[1] Mandegary A, Mehrabani M. Effects of arsenic trioxide, all-trans-retinoic acid and dexamethasone on NB4 cell line. DARU. 2010;18(4):303-9.

- [2] Mandegary A, Hosseini R, Ghaffari SH, Alimoghaddam K, Rostami S, Ghavamzadeh A, *et al.* The expression of p38, ERK1 and Bax proteins has increased during the treatment of newly diagnosed acute promyelocytic leukemia with arsenic trioxide. *Ann Oncol.* 2010 Sep;21(9):1884-90.
- [3] Amini-Shirazi N, Ghahremani MH, Ahmadvani R, Mandegary A, Dadgar A, Abdollahi M, *et al.* Influence of CYP2C9 polymorphism on metabolism of valproate and its hepatotoxic metabolite in Iranian patients. *Toxicology mechanisms and methods.* 2010 Oct;20(8):452-7.
- [4] Moradi M, Mojtahedzadeh M, Mandegary A, Soltan-Sharifi MS, Najafi A, Khajavi MR, *et al.* The role of glutathione-S-transferase polymorphisms on clinical outcome of ALI/ARDS patient treated with N-acetylcysteine. *Respiratory medicine.* 2009 Mar;103(3):434-41.
- [5] Azami A, Pasbakhsh P, Akbari M, Barbarestani M, Ghahremani MH, Shokrgozar MA, *et al.* Dual effects of 3, 4-methylenedioxymethamphetamine (ecstasy) on survival and apoptosis of primary hippocampal neurons. *Neural Regeneration Research.* 2009;4(12):1068-72.
- [6] Hosseini R, Mandegary A, Alimoghaddam K, Ghavamzadeh A, Ghahremani MH. Pharmacokinetic of Arsenic Trioxide in newly diagnosed acute promyelocytic leukemia patients. *Journal of Applied Sciences.* 2008;8(24):4617-23.
- [7] Abdi K, Vossoghi M, Heidari MR, Kazemi-Zarkuei K, Mandegary A. Simultaneous and simple determination of four active ingredients of a pesticide formulation using gas chromatography-flame ionization detector. *Pakistan Journal of Biological Sciences.* 2006;9(8):1411-5.
- [8] Payabvash S, Ghahremani MH, Goliaei A, Mandegary A, Shafaroodi H, Amanlou M, *et al.* Nitric oxide modulates glutathione synthesis during endotoxemia. *Free radical biology & medicine.* 2006 Dec 15;41(12):1817-28.
- [9] Ranjbar A, Khorami S, Safarabadi M, Shahmoradi A, Malekirad AA, Vakilian K, *et al.* Antioxidant Activity of Iranian Echium amoenum Fisch & C.A. Mey Flower Decoction in Humans: A cross-sectional Before/After Clinical Trial. *Evid Based Complement Alternat Med.* 2006 Dec;3(4):469-73.
- [10] Heidari MR, Assadipour A, Rashid-farokhi P, Assad H, Mandegary A. Effect of Rosmarinus officinalis L. Extract on the Seizure Induced by Picrotoxin in Mice. *Pakistan Journal of Biological Sciences.* 2005;8(12):1807-11.
- [11] Nazari A, Delfan B, Shirkhani Y, Kiyanei AA, Mandegary A. Effect of decoction of Satureja khuzestanica Jamzad on blood coagulation time, triglyceride and glucose levels in rats. *Pakistan Journal of Biological Sciences.* 2005;8(6):790-2.
- [12] Pajoumand A, Shadnia S, Efricheh H, Mandegary A, Hassanian-Moghadam H, Abdollahi M. A retrospective study of mushroom poisoning in Iran. *Human & experimental toxicology.* 2005 Dec;24(12):609-13.
- [13] Heidari MR, Mandegary A, Enayati M. Antinociceptive effects and toxicity of Fumaria parviflora Lam. In mice and rats. *DARU* 2004;12(4):136-40.
- [14] Mandegary A, Sayyah M, Heidari MR. Antinociceptive and anti-inflammatory activity of the seed and root extracts of Ferula gummosa Boiss. in mice and rats. *DARU.* 2004 12(2):58-62.
- [15] Sayyah M, Mandgary A. Anticonvulsant effect of Ferula gummosa root extract against experimental seizures. *Iranian Biomedical Journal.* 2003;7(3):139-43.
- [16] Ahmadiani A, Mandgary A, Sayyah M. Anticonvulsant effect of flutamide on seizures induced by pentylenetetrazole: involvement of benzodiazepine receptors. *Epilepsia.* 2003 May;44(5):629-35.
- [17] Sayyah M, Mandgary A, Kamalinejad M. Evaluation of the anticonvulsant activity of the seed acetone extract of Ferula gummosa Boiss. against seizures induced by pentylenetetrazole and electroconvulsive shock in mice. *J Ethnopharmacol.* 2002 Oct;82(2-3):105-9.