



MasoudAsadi-Khiavi (MD, PhD)
Assistant Professor of Clinical Pharmacology
Department of Pharmacology & Toxicology, School of Pharmacy,
Zanjan University of Medical Sciences (ZUMS), Zanjan, Iran
Mobile: +989144827480
Email: makhiavi@gmail.com

Professional Interest:

- Clinical Pharmacology (Pharmacogenomics)

Teaching and supervision experience:

2007-2008	Instructor, Tabriz University of Medical Sciences: Medical Pharmacology for Nursing BSc students
2008-2009	Instructor, Tabriz University of Medical Sciences: Hospital Pharmacy Internship for Pharmacy (PharmD) students
2009-2011	Instructor, Tabriz University of Medical Sciences, Pharmacogenomics using DNA Microarray technology for MSc & PhD students (Toxicology, Human Genetics, Medical Biotechnology, Molecular Medicine)
2010 -2011	Advisor for four MD & MSc (Medical IT & Biology students) theses
2010-Present	Instructor, Zanjan University of Medical Sciences: Medical Pharmacology for Pharmacy (PharmD) students

Skills:

1. **PC soft-wares:** (Word, Excel, PowerPoint, Photoshop, etc.), statistics and kinetics soft-wares (WinNonlin, SPSS, etc.), Matlab soft-ware, Reference managing soft-wares (EndNot, Reference manager, etc.).

2. **Stereotactic techniques**, Laboratory animal handling and **surgery techniques**
3. **Molecular genetics techniques** including: Application of the Internet-based tools and Primer design soft-wares, **PCR, RT-PCR** and **Real Time PCR**
4. Gene Expression Profiling and Gene Ontology using **DNA microarray technology** (DNA labeling using fluorescent dyes, data analysis (Image processing, data mining, Clustering and Modeling using ArrayPro and GeneMath soft-wares, Pattern recognition and Knowledge extraction using **computational intelligence**)
5. **Gene Therapy** using Antisense & siRNA therapy in cell lines

Selected Professional Presentations:

1. Shakhodabandeh S., Biglue M., **Asadi M.**, 7th International Breast Cancer Congress, Shahid Beheshti University of Medical Sciences, **Tehran, Iran, 2012**
2. **Asadi M.**, Hamzeiy H., Barar J., Omidi Y., Mohammadi S., WorldPharma2010 (16th World Congress of Basic and Clinical Pharmacology), **Copenhagen, Denmark, 2010**
3. Hamzeiy H., **Asadi M.**, Mohammadi S., Eghbal M., Barar J., Omidi Y., 9th International Meeting of the “International Society for the Study of Xenobiotics” (ISSX), **Istanbul, Turkey, 2010**
4. Sadollah Mohammadi, A Garjani, M Najafi, H Hamzeiy, N Maleki-Dizaji, M Darabi, K Hassanzadeh, **M Asadi.**, WorldPharma2010 (16th World Congress of Basic and Clinical Pharmacology), **Copenhagen, Denmark, 2010**

5. Biglue M., Shahkhodabandeh S., **Asadi M.**, Barar Jand Omid Y., Iranian Scientists Approach to Breast Cancer Researches. 5th international congress of Breast Cancer, **Tehran, Iran, 2010**
6. Mashayekhi SO, Ghandforoush-Sattari M, Maleki N, **Asadi M.** Islamboulchilar M, Parvizpour A, Alizadeh M., Learning Topics of Pharmacy Doctorate Students during Hospital Pharmacy Internship. Asian Association of Schools of Pharmacy, 4th Conference, June. 10-13, **Penang, Malaysia, 2009**
7. Barar J., **Asadi M.**, Omid Y., Impacts of DNA microarray technology on multiple sclerosis disease. 6th international congress of Multiple Sclerosis, **Tabriz, Iran, 2009**
8. Barar J., Saei AA., **Asadi M.**, Atashpaz S., Nakhband A., Omid Y. Microarray analysis of polycationic gene delivery nanosystems in human A431 cells. 2nd International Student Conference of Biotechnology, **Tehran, Iran, 2008**

Publications:

1. Mohammad Hossein Biglu, Susan Shahkhodabandeh, **Masoud Asadi**, (2012), Publications on Breast Neoplasms in Medline: A Comparison between Iran and Other Middle East Countries. **Health Information Management**, Vol 9, No 1: 1-10
2. Hanif Yaghoobi, Siyamak Haghypour and **Masoud Asadi-Khiavi***, (2012), A Review of Modeling techniques for Genetic Regulatory Networks. **Journal of Medical Signals and Sensors (JMSS)**, Vol 2, No1: 63-72.

3. M.A. Moosavi †S. Moasses Ghafary †I. Asvadi-Kermani †H. Hamzeiy †M. Rahmati †A.H. Ahmadi †A. Nikanfar †Z. Sanaat †**M. Asadi-Khiavi***, (2011), Carbenoxolone induces apoptosis and inhibits survivin and survivin- Δ Ex3 genes expression in human leukemia K562 cells. *DARU*, Vol. 19, No. 6: 455-461.
4. **Masoud Asadi-Khiavi**, Hossein Hamzeiy, Sajjad Khani, Ailar Nakhband and Jaleh Barar, (2011). Gap Junctions: The Claymore for Cancerous Cells. *BioImpacts*, 1(2), 113-119 doi: 10.5681/bi.2011.015
5. Moosavi MA., Moasses S.,**Asadi M.**, AsvadiKermani I., (2011), Growth inhibitory and anti-Apoptotic effects of Carbenoxolone in human leukemia NB4 cells, *Arak Medical University Journal (AMUJ)*, 14(58): 92-100.
6. Moosavi MA., Moasses S.,**Asadi M.**, AsvadiKermani I., (2011), Growth inhibitory and anti-Apoptotic effects of Carbenoxolone in human myelogenous leukemia K562 cells, *Scientific Journal of Kurdistan University of Medical Sciences*, 16 (1) :27-37.
7. Moosavi MA., Moasses S.,**Asadi M.**, AsvadiKermani I., (2011). Inhibition of survivin and its anti-apoptotic splice variant sur- Δ Ex3 genes expression followed by apoptosis through carbenoxolone in K562 cells, *Arak Medical University Journal (AMUJ)*, 14(57): 86-96.
8. **Asadi M.**, Hamzeiy H., Barar J., Omid Y., Mohammadi S., (2010), Impacts of EGFR-antisense and carbenoxolone on cancer cell lines. *Basic & Clinical Pharmacology & Toxicology*, Volum 107: 181- 182 Doi: 10.1111/j.1742-7843.2010.00597.
9. Mohammadi S., Hamzeiy H., A. Garjani, **Asadi M.**, (2010). Stabilization of cardiac function Methylsulfonylmethane (MSM) treatment improve hemodynamics

in monocrotaline-induced pulmonary hypertension. *Basic & Clinical Pharmacology & Toxicology*, Vol 107: 465 Doi: 10.1111/j.1742-7843.2010.00597.

10. Barar J., Gumbleton M., Asadi M. and Omidi Y.,(2010), Barrier functionality and transport machineries of human ECV304 cells, *Medical Science Monitor*, 16(1): BR52-60.
11. Kouhi H., Hamzeiy H., Barar J., Asadi M., Omidi, Y., (2009), Frequency of Five Important CYP2D6 Alleles within an Iranian Population (Eastern Azerbaijan), *Genetic Testing and Molecular Biomarkers*, 13(5): 665-670. DOI: 10.1089=gtmb.2009.0009.
12. Barar, J., Asadi M., Mortazavi-Tabatabaei, S.A. and Omidi, Y., (2009), Ocular drug delivery and impacts of in-vitro cell culture models, *Journal of Ophthalmic & Vision Research*, 4(4): 238-252.
13. Mashayekhi SO, Ghandforoush-Sattari M, Maleki N, Asadi M., Islamboulchilar M, Parvizpour A, Alizadeh M., (2009), Learning Topics of Pharmacy Doctorate Students during Hospital Pharmacy Internship. *Malaysian Journal of Pharmacy*; 1 (7), PPE 01.
14. Biglue M., Shahkhodabandeh S., Asadi M., Piri Z., Chakhmaghi N. (2009), Breast cancer in Iran: Iranian scientists research approach in Medline database. *Iranian Breast Cancer Journal*, Vol. 2, No. 2: 49-59
15. MohajjelNayebi A. and Asadi M. Effect of buspirone on morphine withdrawal syndrome in mice. *Pharmaceutical Sciences*, (2009), Vol.14, No.4: 229- 235

Ongoing papers:

1. Splicing variety of Survivin mRNA in CML patients (Under submission)

2. Carbenoxolone induces apoptosis and inhibits gene expression of survivin and its anti-apoptotic splice variant survivin- Δ Ex3 in human leukemia K562 cells (Under submission)
3. Impacts of gap junction blocking on MCF7 breast cancer cell line using **DNA Microarray technology**(Under submission)
4. Impacts of gap junction blocking on BT20 breast cancer cell line using **DNA Microarray technology**(Under submission)
5. Effects of modified synthesized Erlotinib on cancer Cell Lines(Under submission)
6. **DNA Microarray data clustering** using Self-organizing map for human leukemia cancers differential diagnosis(Under submission)
7. Gene regulatory network models using **Dynamic Bayesian Network on Microarray data sets**(Under submission)

Ongoing books/chapters:

- Book: Programmed cell death (in Persian)
- Molecular medicine (in Persian)
- Biological Signal Processing (in Persian)

Awards Received:

- Distinguished Physician by the Ministry of Health and Medical Education (1999-2000)

Education Workshops and Community Presentations (Selected):

- Conference: Gene expression profiling using **DNA Microarray technology in Human Genetics**, Tabriz University of Medical Sciences, Faculty of medicine, **Tabriz, Iran, 2011**
- Workshop: **RT-PCR**, Tabriz University, **Tabriz, Iran, 2011**
- Workshop: **RT-PCR**, Tabriz University, **Tabriz, Iran, 2012**
- Conference: Impacts of **Nanobiotechnology** on cancer Therapy, Faculty of pharmacy, Tabriz University of Medical Sciences, **Tabriz, Iran, 2010**
- Conference: Impacts of **DNA Microarray technology** on Cancer Therapy, Faculty of pharmacy, Ardabil University of Medical Sciences **Ardabil, Iran, 2009**
- Conference: **DNA Microarray technology** in Breast Cancer, Faculty of medicine, Tabriz University of Medical Sciences, **Tabriz, Iran, 2008**

Organizational Memberships:

2011-Present	Tuberculosis and Lung Research Center (TLRC)
2010-Present	American College of Clinical Pharmacology (ACCP)
2010-Present	Neurosciences Research Center (NSRC)
2009-Present	Hematology and Oncology research center (HORC)
2005-2011	Research Center for Pharmaceutical Nanotechnology (RCPN)
1996-Present	IRIMedical Council (IRIMC)