

CURRICULUM VITAE



Name: **Mojgan sheikhpour, Ph.D.**

Assistant professor, Department of Mycobacteriology and Pulmonary Research, Microbiology Research Center (MRC), Pasteur Institute of Iran, Tehran, Iran.

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Education

PhD.

Molecular Genetics, Tarbiat Modares University, 2009-2012.

Thesis title: Evaluation of dopamine gene receptor expression in lung cancer patients and pharmacogenetic study of them in order to induction of cell apoptosis.

M.Sc.

Genetic – Science and Research Branch- Islamic Azad university -2004- 2007.

Thesis title: Transfection of human hematopoietic stem cells by gene construct which containing beta globin gene. Department of biotechnology and National cell Bank of Pasteur Institute.

B.Sc.

Cellular and molecular Biology- University of Tehran.

Teaching

- Genetics
- Cell Culture Systems Engineering
- Cancer Genetics

- Cell and Tissue culture
- Genetic counseling
- Principles of Proposal and paper writing
- Principles of Molecular Biotechnology
- Bioreactors in Tissue Engineering
- Bioreactors in Biomedical Engineering
- Biology
- Cellular and Molecular Biology
- Biochemistry
- Taxidermy Lab
- Histology Lab
- Embryology Lab
- Cell culture Lab
- Genetic Engineering Lab
- Health and First Aid

Research Interests

- Lung Diseases, detection and treatment
- Gene expression
- Medical Genetic Research
- Cancer Genetics
- Drug delivery to Cancer Cells
- Cell signaling and Neurotransmitters Pathways
- Regulation in Pre & Post transcription
- Structure-Function Relationship of genes & Proteins
- Cell culture & Tissue engineering
- Stem cell and gene therapy
- Bio implants in Tissue engineering
- Genomics, Proteomics and Functional Genomics
- Bioremediation
- Biomimetic
- Genetic counseling of Cancers

Clinical Skills

- ✓ Genetic Counseling

- ✓ Emergency medical service

Laboratory Skills

- Handle of different kind of cells (adherent and suspend cells),
 - Separation , isolation and culture of stem cells
 - Immunohistochemistry
 - 3D Cell culture
 - Drug delivery & Drug dose determination on cancer cells
 - Apoptosis Assay methods
 - Transfection
 - Animal surgery
 - DNA extraction from human blood samples with different methods.
 - Bacterial culture
 - Bacterial DNA extraction.
 - Bacterial plasmid DNA extraction.
 - PCR (general)
 - Real Time PCR
 - Design of primer for PCR.
 - Purification of DNA fragments from agaros and acrylamide gel.
 - Bioremediation
 - Gene cloning
 - Application of Bioinformatic databases for Gene and protein researches.
 - Alignment protein & DNA sequence by Bioinformatics methods.
 - Prediction 3-D of structure of protein by Homology Modeling method.
 - Alignment 3-D of structure of protein by Bioinformatics methods.
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Published Papers

1- **Mojgan Sheikhpour**, Leila Barani, Alibakhsh Kasaeian, Biomimetics in Drug Delivery Systems: A Critical Review. Journal of Controlled Release.2017 (Corresponding Author).

2- **Mojgan Sheikhpour**, Ali Golbabayi, Alibakhsh Kasaeian, A review of novel strategies for cancer diagnosis and treatment. Material science and engineering C,2017. (Corresponding Author).

3- Peighami R, Mehrnia M, Yazdian F, **Sheikhpour M**, Preparation, characterization and performance studies of polyethersulphone(PES) membranes using pyrolytic carbon(PYC) as an additive. Journal of membrane science, J Polym Res (2017) 24:24. DOI 10.1007/s10965-016-1180-5

4-Shabani F, Jameh Bozorgi S, **Shaikhpour M**, *Synthesis, Characterization, Theoretical Calculations and Anti-Tumor Study of 2-Aminopyridine trifluorotitanium (IV) complex*, J.Chem.Soc.Pak., Vol. 37, No. 06, 2015 1135

5-Fahmideh, S., Saeed, J. , **Mozhgan, S.** *Anti-tumor study and Theoretical calculations of 2-aminopyridine trifluorotitanium (IV) complex*. Research Journal of Chemistry and Environment, Volume 19, Issue 5, 1 January 2015, Pages 8-13

6-Mansoori SH, Yazdian F, Azizi M, **Sheikhpour M**, Amooabediny GH, Hamed J, Rasekh B, *Optimization of Monacolin production in a controlled system, Applied Food Biotechnology, 2015,2(4)*

7-Mirzaei M, Amoabediny G.H, Yazdian F, **Sheikhpour M**, Ebrahimi . *An Immobilized Thiobacillus thioparus Biosensing System for Monitoring Sulfide Hydrogen; Optimized Parameters in a Bioreactor*. Process Biochemistry.2014.

8- Shaikhpour M, Ahanghari G, Sadeghizadeh M, Dizaji A. A novel report of apoptosis in human lung carcinoma cells using selective agonist of D2-like dopamine receptors: Lead to a new approach for the treatment of human Non-Small Cell Lung Cancer.International journal of immunophatology & pharmacology.2013.

9- Shaikhpour M, Ahanghari G, Sadeghizadeh M, Khosravi A, Derakhshani Deilami G. *Significant Changed in D2-like Dopamine Gene Receptors Expression Associated with Non-Small-Cell Lung Cancer: Could it be of potential use in the Design of future therapeutic strategies?* Current Cancer Therapy Reviews. 2012.

10- Fazili A, Salehi E, Abdoli M, Jafari HR,**Shaikhpour M**. *Evaluation of Hospital waste Manegement in karaj' hospitals*.journal of environment.2010.

11- Shaikhpour M, Khanahmad H,Shokrgozar M,Solaimani M,Zeinali B,kamali E,Moosavi SS,Zeinali S. *Transfection of human Hematopoietic Stem Cell by a gene targeting construct containing beta globin gene*. Yakhteh, 2010.

12- Moosavi P,Soltani S ,**Shaikhpour M**, *A comparison Between Cytological method and PCR in the Diagnosis of HPV infection among patients with Cervical Cancer*, Science Alert.2008.(corresponding Author)

Accepted /Submitted papers

Sheikhpour M, Yazdian F , Sadeghi A, Mansoori A, *Apoptotic effects of Ectoine and Hydroxyectoine on human lung cancer cells* , Applied Food Biotechnology, Accepted.(corresponding Author).

Sheikhpour M, Yazdian F, Sadeghizadeh M, Hagirosadat F, Mansoori A, *Co-administration Evaluation of Curcumin and Bromocriptine Nano-liposomes: The novel formulation to Induction of Apoptosis in Lung Cancer Cells*, Cell Journal(Yakhteh), under review.(corresponding Author).

Peighami R, **Sheikhpour M** , Yazdian F, *Assessment of Cytocompatibility and hemocompatibility of Polyethersulfone-Pyrolytic carbon composite membrane used in bioartifitial pancreas*, Artifitial organ, under review.(corresponding Author).

Shabani F, Jamehbozorgi S , **Shaikhpour M** , Anti-tumor activity of Fe(III), Co(II) and Pd(II) complexes of N3-{phenyl [(4-pyridylcarbonyl)amino]methyl} , Chemistry Central Journal, 2015, under review

Mojgan Sheikhpour, Parisa Soheili, Alibakhsh Kasaeian, Fatemeh Yazdian, Mohamad Aramesh. A Review on the Synthesis Methods of Ectoine and Hydroxyectoine. Journal of natural products. Under review

Alibakhsh Kasaeian, **Mojgan Sheikhpour**, Reihaneh Ashouri, Raheleh Torabi , A Review on Carbon-Doped Nanophotocatalyst Based on ZnO, Chemical Engineering Journal, Under review

Farzaneh Hosseini, Alibakhsh Kasaeian, Fathollah Pourfayaz, **Mojgan Sheikhpour**, Dongsheng Wen, Novel MWCNT/ZnO-Ag Nanoparticles for the Photocatalytic Degradation of Phenol, Applied catalysis B journal.

Books Published

Soltani S, **Shaikhpour M**, Moosavi SS, *Application of Artifitial Nural network and Easy-NN-Plus & Neurosolutions Softwares*, 2010

Yazdian F, Sadeghi M, **Shaikhpour M**, *Protein Engineering*, 2016

Shaikhpour M, Chitsazian F, Antimicrobial peptides or natural antibiotics, Genetic information, Bioinformatics and its varied applications, 2017

Invited Talks and Presentations

Significant differences in Dopamine Receptors Genes expression profiles could contribute to diagnosis and monitoring of Non-Small-Cell lung Cancer, 5th National seminar on Genetic Counseling and prevention of disability, 2016, Iran

Recognition of Genetically factor's role in Diabetes disease. Ministry of Science, Research and Technology, 2015, Iran

Possibility of using Dopamine receptors specific drugs in Drug Delivery or Treatment of Lung Cancer, Oral presentation at the "4th World Congress on Cancer Science & Therapy" held on October 20-22, 2014 in Double Tree by Hilton Hotel Chicago-North Shore Conference Center, USA.

Bromocriptine is responsible for apoptosis induction in lung cancer cells, 5th international congress of Biochemistry, 2013, Yazd

Abstracts

Afsaneh Fazili, Soghra Gholami, **Mojgan Sheikhpour**, Potential effect of Matricaria chamomilla L. oil on therapeutic properties of poly (L-lactic acid) - collagen based scaffold in treatment of rabbits with diabetes, 2th International congress of Stem Cells and Regenerative Medicine , Mashhad2017

Sheikhpour M, Karimi E, Antimicrobial peptides of natural origin: Specific resources for the next generation of antibiotics, Second international and 14th Iranian Genetic congress, 2016, Iran

Sheikhpour M, Arabi M, Characteristics of Lung Cancer patients and healthy controls in a case-control study in Iran, 1st international congress of Research integrity & evidence-based practice

Peighami R, Mehrnia MR, Yazdian F, **Shaikhpour M**, Modeling kinetics and Reactor Design of Bioartificial Pancreas. 22nd Iranian Conference of Biomedical Engineering2015, Tehran,Iran

Kalantar M, Ebrahimi B, Yazdian F, **Sheikhpour M**, Studies on Bioavailability of Curcumin, 16th International and Iranian congress of Microbiology, 2015

Nojoki F, Hatamian AS, Yazdian F, Kalantari S, **Sheikhpour M**, Production of ectoin using Halomonas elongate and investigation of effects on Bacteria in Stressful conditions, 1th international and 9th national Biotechnology congress of Islamic Republic of Iran

Sheikhpour M, Sadeghizadeh M, khosravi A, Analytic study on lung cancer patients and healthy controls in a case- control study in Iran, Cancer and Prevention Conference, 2015, Tehran, Iran

Kalantar M, **Sheikhpour M**, Ebrahimi B, Yazdian F, Analysis of liposomal structure as a scaffold for delivery of curcumin to lung, 5th international Congress on Nanoscience & Nanotechnology(ICNN2014)

Karimi E, Yazdian F, Hatamian Ash, Akhavan Sepahy A, Rasekh B. **Sheikhpour M**, Biotransformation of Dibenzothiophene by immobilization microbial Cells on carbon nanotubes modified with poly ethylene glycol(PEG), 15th International Congress of Microbiology, 2014, Tehran University of Medicine, Tehran, Iran,2015

Heydarian M, Hatamian Ash, Yazdian F, Amooabediny Gh, **Sheikhpour M**, Synergistic effects of elicitors on enhancing ganoderic acid producing by fungus Ganoderma lucidum, 15th International Congress of Microbiology, 2014, Tehran University of Medicine, Tehran, Iran

Sheikhpour M, Ahangari G, Sadeghizadeh M, Arabi I, Possibility of using Dopamine receptors specific drugs in Drug Delivery or treatment of Lung Cancer, 4th World Congress on Cancer Science & Therapy, 2014 ,USA

Sheikhpour M, Khabbaz H, Taran M, Role of Dopamine Receptors Expression in the cell cycle of cancer cells, First International and 13th Iranian Genetics Congress, 2014, Iran

Sheikhpour M, Ahangari G, Sadeghizadeh M. Investigate the role of dopamine receptors in the treatment and clinical management of lung cancer, First International and 13th Iranian Genetics Congress, 2014, Iran

Sheikhpour M, Hatamian Ash, Yazdian F, Sadeghi A, Azizi M , Antiproliferative effects of Ectoine and Hydroxyectoine on human lung cancer cells , The 8th International Chemical Engineering Congress & Exhibition (ICHEC 2014) Kish, 2014 ,Iran

Edalat H, Farhadpour F, Fakoorziba MR, **Sheikhpour M**, Akbarzadeh K. Study on CCHF vector (Hard Ticks) collected on Domestic Ruminants spring 2013 in Marvdasht, Fars Province, Iran, DGHM Lecture , International journal of medical microbiology,2013,German

Sheikhpour M, Ahangari G, Sadeghizadeh M. Significant Changed in D2-like Dopamine Gene Receptors Expression Associated with Non-Small-Cell Lung Cancer, Annual Meeting 2013, USA

Sheikhpour M, Ahangari G, Sadeghizadeh M. Possibility of using D2-Dopamine receptors specific drugs in treatment of Non-Small Cell Lung Cancer, 5th International Conference on Drug discovery & Therapy, 2013, Dubai,UAE

Sheikhpour M, Ahangari G, Sadeghizadeh M. Bromocriptine is responsible for apoptosis induction in lung cancer cells, 5th international congress of Biochemistry, 2013, Yazd

Shaikhpour M, Khanahmad H, Shokrgozar MA, Solaimani M. Kamali E,S Zeinali S, Immunomagnetic Separation of Hematopoietic Stem Cells&Transfection of them by a gene construct containing Beta globin gene, 15th National&3rd International Conference of Biology, 2008, University of Tehran , Iran.

Khanahmad H, **Shaikhpour M**, Shokrgozar MA, Karimpour M, Maryami F, Jamshidi F, zeinali S, Beta Globin Gene Targeting Of Blood Derivative Human Hematopoietic Stem Cells, The first International Congress on Health Genomics and Biotechnology, 2007, Tehran, Iran

Thesis Consultation

- Optimization of mass transfer and hydrodynamic effect of the fluid in a Microcarrier-based shaken bioreactor for animal cell cultures, PhD, Tehran University
- Design and construction of membrane bioreactor for control of insulin secretion, Msc, Tehran University
- Simulate the effect of mass and oxygen transfer and validation of data in a porous scaffold inside the bioreactor of cell culture, Msc, Tehran University
- Synthesize and cytotoxic effects characterization of Schiff base and Nano drug compounds, PhD, Arak University
- Production of compatible solute from life origin and its protective property evaluation on lung, Faculty of Chemical Engineering, North Tehran Branch, Islamic Azad University
- Functional evaluation of ZnO/AgI graphenebased photocatalist in reduction of nitrate, Faculty of Chemical Engineering, North Tehran Branch, Islamic Azad University

Seminars and conferences

Genetic Counseling Seminar, 2015, Tehran,Iran
2th International Congress of Royan, 2006, Tehran,Iran
Congress of Cord Blood Stem Cells2006, Tehran,Iran
1th International and 4th Iranian Congress on Health Genomics and Biotechnology, 2007, Tehran, Iran
36th Congress of Medical Genetic, 2007, Tehran,Iran
4th Congress of Spinal Cord injuries, 2008, Tehran,Iran
Ageing issues in Iran and the World congress, 2008, Tehran,Iran
3th International Congress of proteomics, 2010, Tehran,Iran
1th International Congress of Tissue engineering & Regenerative Medicine, 2013, Tehran,Iran
4th National mitting of Bioinformatic, 2013, Tehran,Iran
Conferences of lung cancer news, 2013, Tehran,Iran
National conference of Gene Banks, 2013, Tehran,Iran

12th Iranian Genetics Congress, 2014, Tehran, Iran

First International and 13th Iranian Genetics Congress, 2014, Tehran, Iran

2th International Congress on Entrepreneurship Emphasizing improvement of Business Environment, 2014, Tehran, Iran

2nd International Anxiety Congress, 2014, Tehran, Iran

Workshops

The conventional surgeries in laboratory mouse

Regenerative Medicine: Bone Repair Strategies

PCR primer design

Genetic counseling

Neuro Immuno Onco Genetic

Bioethics and Ethical aspects of Biosafety

Learning experiences design

Real Time PCR

Professional Memberships

1- Genetics society of Iran

2- Biology society of Iran

3- Bioinformatics society of Iran

4- Peptide society of Iran

5- American Association for Cancer Research (AACR)

6- Iranian Medical Genetic Society

Invention

Nano liposome system contains bromocriptine has the property of inducing apoptosis on lung cancer cells