

Name: Mahsa

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Date of birth: 11th march 1978

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Contact info:

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Education and degrees:

- 1- Doctor of Pharmacy (*Pharm.D.*), Tabriz University of Medical Science, Faculty of Pharmacy (2001)
- 2- Philosophy doctor (*Ph.D.*) of Pharmaceutical Biotechnology, Pasteur Institute of Iran, Molecular Virology Department (2015)

Title of thesis:

- 1- *Ph.D.* in Pharmaceutical Biotechnology, Pasteur Institute of Iran: Stabilization and targeting of an enteroviruse like RNA construct for expression in colon cancer cell lines
- 2- *Pharm.D.*, Tabriz university of medical science: the effect of inorganic cations Ca^{2+} and Al^{3+} on the release rate of propranolol hydrochloride from anionic polymers matrices

Laboratory Skills and Expertise:

- 1- Molecular biology techniques (Cloning, electrophoresis,...)
- 2- PCR, RT-PCR, Real time PCR

- 3- Mammalian cell techniques (culture, transfection, ...)
- 4- Virus culture
- 5- Flow cytometry
- 6- RNA Science (In vitro Transcription, RNA transfection, RNA bioinformatics,...)
- 7- Proteomics

Language skills:

Persian (native language)

English (Advanced)

Arabic (intermediate)

Italian (Basic)

Presentations:

Poster presentations:

- 1- Cross – Linkage: A novel method for sustaining propranolol hydrochloride release from anionic polymeric matrices. (7 th Seminar of Iranian Pharmacy Students. 2001; Isfahan University Of Medical Sciences. M.Rasekhian, M.Barzegar-Jalali,M.R. siahi, (First Rank)).
- 2- The effect of inorganic cations Ca^{2+} and Al^{3+} on the release rate of propranolol hydrochloride from sodium carboxymethylcellulose matrices (11th Iranian Pharmaceutical Sciences Conference, August 18-21, 2008, Kerman, Iran Mohammad Barzegar-Jalali, maryam hasan, Mahsa Rasekhian,Ghobad Mohammadi , khosro adibkia , Somayeh Hallaj-nezhadi)
- 3- Phosphoproteomics analysis of rabies virus infected Neuroblastoma B. (2nd Iranian Proteomics Congress, April 2009, Royan Institute, Tehran, Iran. Dabirian S., Rasekhian M., Saljoughian N., Eslami N., Fayaz A. and Vaziri.).
- 4- IFN- α 2b reduces released particles of Human T-lymphotropic Virus-I from HTLV-I transformed cell line. (Christine Hartoonian, Mahsa Rasekhian, Rozita

Edalat, Arash Arashkia and Kayhan Azadmanesh, *Retrovirology*, 8(Suppl 2), P30. <http://doi.org/10.1186/1742-4690-8-S2-P30>)

Oral presentations:

1- Potential application of 3' non-coding region of poliovirus RNA genome for stabilization of RNA-based vaccines in cancer immunotherapy (12th ICIA Tehran, Iran. Rasekhian, Roohvand, Teimoori toolabi and Azadmanesh)

Publications:

1- The effect of inorganic cations Ca²⁺ and Al³⁺ on the release rate of propranolol hydrochloride from sodium carboxymethylcellulose matrices (Mohammadi G, Barzegar-Jalali M, Shadbad MS, Azarmi S, Barzegar-Jalali A, Rasekhian M, et al. *DARU Journal of Pharmaceutical Sciences*. 2009)

2- Application of the 3'-noncoding region of poliovirus RNA for cell-based regulation of mRNA stability-implication for Biotechnological applications (Rasekhian M, Teimoori-Toolabi L, Amini S, Azadmanesh K *Biotechnology and applied biochemistry*. 2014)

3- An Enterovirus -like RNA construct for colon cancer suicide gene therapy (Rasekhian M, Teimoori-Toolabi L, Amini S, Azadmanesh K., *Iranian Biomedical Journal*. 2014)

Fields of Interest:

- 1- Virotherapy of cancer (oncolytic viruses)
- 2- RNAi (microRNA, siRNA)
- 3- apoptosis
- 4- Gene cloning and expression (monoclonal antibody, immunoproteins)

Teaching experience:

1- Pharmaceutical Biotechnology for Pharm.D. students, invited lecturer, (2009-13) , faculty member (2015)

- 2- Biological products for Pharm.D. students, invited lecturer, (2009-13)
- 3- Mammalian cell culture for Pharm.D. students, invited lecturer (2013),
faculty member (2015)
- 4- Cellular and molecular biology, Pharm.D. students (2015)
- 5- Pharmacology,students, invited lecturer(2015)

Computer skills:

- 1- Advanced Microsoft Office skills
- 2- CLC main workbench
- 3- VectorNTI
- 4- Chromas
- 5- SPSS
- 6- GraphPad Prism
- 7- EndNote
- 8- Qiqqa