

# Curriculum Vitae

## Personal Details

Name: **Afsaneh Farjami**

Degree: **Pharm. D and Ph. D in Pharmaceutical and food control**

Date of Birth: 23<sup>th</sup> of April. 1986

Address: Faculty of pharmacy  
Tabriz University of Medical Sciences,  
Tabriz  
East Azerbaijan  
Iran

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## Education

2011 **Pharm. D**, Faculty of Pharmacy, Tabriz University of Medical Sciences, Iran.  
Pharm. D. thesis: Application of Central Composite Design in formulation and optimization of Divalproex sustained release tablets  
**(Grade: Excellent, 20 out of 20).**

2019            **Ph. D in Pharmaceutical and food control**  
Ph. D, Faculty of Pharmacy, Tabriz University of  
Medical Sciences, Iran.  
Ph. D. thesis: Evaluation of stability of anti-epidermal  
growth factor receptor monoclonal antibody,  
cetuximab  
**(Grade: Excellent, 20 out of 20).**

## **Awards**

- 1. 3<sup>rd</sup> place poster presentation award** in 16th Iranian Pharmacy Students Seminar, Tehran, Iran, October 2011. Application of Mixture design in formulation and optimization of sustained release divalproex sodium tablets, **Afsaneh Farjami**, Farnaz Monajjemzadeh, Hamed Hamishehkar, Hadi Valizadeh, Parvin Zakeri-Milani.
- 2. 2<sup>nd</sup> place in PhD course entrance exam in Iran, 2013**
- 3. Outstanding researcher student award**
- 4. Member of talented student committee**

## **Research Interest**

- Physicochemical and biological analysis of biopharmaceuticals
- Quality control and stability of pharmaceuticals and biopharmaceuticals
- Development and validation of new analytical and bio-analytical methods
- Evaluation of the bioactivity of biopharmaceutical products
- Microbial quality control of Pharmaceutical and biopharmaceutical Products

## **Member of Editorial Board of Journal of Advanced Chemical and Pharmaceutical Materials (JACPM)**

### **Teaching experiences**

- Practice of physicochemical quality control of drugs for Undergraduate students of Pharmacy.
- Practice of microbial quality control of drugs for Undergraduate student of Pharmacy.
- **Rules in Pharmacy for Undergraduate student of Pharmacy.**

### **Laboratory skills**

- Skills: Analytical and bioanalytical method developments  
Analytical and bioanalytical method validation  
Animal Cell culture  
Direct and Indirect Staining  
Cell binding assay- Flow cytometric analysis  
Cell proliferation and toxicity assay  
Extraction and purification of DNA  
Two-dimensional gel electrophoresis  
PCR
- Instruments: LC-MS/MS  
Real Time PCR  
UV-VIS spectrometry  
Spectrofluorimetry  
FTIR  
DSC  
Reversed phase high performance liquid chromatography,  
Size exclusion chromatography  
Ion Exchange chromatography
- Softwares: Minitab  
SPSS  
Endnote

Ape  
Blast  
Allign  
Graphpad prism

## Publications

1. **Afsaneh Farjami**, Sara Salatin, Samira Jafari, Mohammad Mahmoudian, Mitra Jelvehgari. The Factors determining the skin penetration and cellular uptake of nanocarriers: New hope for clinical development, **Current Pharmaceutical Design. Accepted**
2. **Afsaneh Farjami**. Sina Jalilzadeh, Mohammadreza Siahi-Shadbad, Farzaneh Lotfipour. The Activity of Hydrogen peroxide Against Biofilm Formed by *E. coli* Isolated from a Pharmaceutical Water System. **Under review. [Revisions Being Processed](#)**.
3. **Afsaneh Farjami**, Shiva Eradati, Mohammadreza Siahi-Shadbad, Farzaneh LotfiPour. Effect of Peracetic Acid/Ultraviolet Treatment on Microbial and Endotoxin Levels in a Pharmaceutical Water System: six months evaluation. **Water practice and technology. Under review. [Revisions Being Processed](#)**
4. **Afsaneh Farjami**, Mohammad-sadegh Hatami, Mohammadreza Siahi-Shadbad, Farzaneh Lotfipour. Peracetic acid Activity on Biofilm Formed by *E. coli* Isolated from Industrial Water System. **Letters in applied microbiology. Under review**
5. Sara Salatin, **Afsaneh Farjami\***, Mohammadreza Siahi-Shadbad. The Importance of Bioassay in Stability Studies of Biopharmaceuticals: a Review, AAPS PharmSciTech. **Under review**
6. Sara Salatin, Mitra Jelvehgari\*, **Afsaneh Farjami\***. Development and characterization of a novel thermosensitive and mucoadhesive liquid suppository of sumatriptan: design, optimization, in vitro, and ex vivo evaluation for rectal drug delivery. **Expert Opinion on Drug**

## **Delivery. Under review**

7. Farzaneh Iotfipour, Sara Salatinc, **Afsaneh Farjami**, Mohammad Mahmoudianc, Mitra Jelvehgari, Solmaz Maleki Dizaj. Safety and toxicity issues of therapeutically used nanoparticles from oral route. **BioMed Research International. Under review**
8. Hadi Hamishehkar, **Afsaneh Farjami**; Niloufar Farzan; Hamed Hamishehkar, Parina Asgharian; Sarvin Sanaie, Kamran Shadvar, Ata Mahmoodpoor, Plasma versus Blood level of Taurine in septic critically ill patients, an observational study. **Advanced Pharmaceutical Bulletin. Under review**
9. Mehdi Farhoudi, Solmaz maleki dizaj, **Afsaneh Farjami**, Mohammad Mahmoudian, Sara Salatin. The targeting and transport of NPs in Alzheimer disease. **Expert Opinion on Drug Delivery. Submitted**
10. **Afsaneh Farjami**, Soheila Montazersaheb, Saeedeh Razi, Parvin Akbarzadeh-Laleh. Biological products in Covid-19 treatment. **Submitted**
11. **A Farjami**, M Siah-Shadbad, P Akbarzadehlaleh, K Roshanzamir, Ommoleila Molavi. Evaluation of the Physicochemical and Biological Stability of Cetuximab under Various Stress Condition, Journal of Pharmacy & Pharmaceutical Sciences, 22 (2019), 171-190. **IF: 2.33. Indexed in ISI, Scopus, Pubmed, Embase, DOAJ**
12. **A Farjami**, P Akbarzadehlaleh, O Molavi, M Siah-Shadbad. Stability-Indicating Size Exclusion Chromatography Method for the Analysis of IgG mAb-Cetuximab, Chromatographia 82 (2019), 767-776. **IF:1.552, Indexed in ISI, Scopus, Embase**
13. **A Farjami**, M Siah-Shadbad, P Akbarzadehlaleh, O Molavi. Development and Validation of Salt Gradient CEX Chromatography Method for Charge Variants Separation and Quantitative Analysis of the IgG mAb-Cetuximab, Chromatographia 81 (2018), 1649-1660. **IF: 1.552, Indexed in ISI, Scopus, Embase**

- 14.** M Samiei, **A Farjami**, SM Dizaj, F Lotfipour. Nanoparticles for antimicrobial purposes in Endodontics: A systematic review of in vitro studies, *Materials Science and Engineering: C* 58 (2016), 1269-1278. **IF: 4.959, Indexed in ISI, Scopus, Pubmed**
- 15.A Farjami**, A Jouyban. Solubility of Tadalafil in Pharmaceutical Solvent Mixtures at 298.2 K, *Chemical Engineering Communications* 202 (2015), 1522-1527. **IF: 1.431, Indexed in ISI, Scopus, Pubmed**
- 16.A Farjami**, A Jouyban. Lamotrigine solubility in some nonaqueous solvent mixtures at 298.2 K, *Journal of Chemical & Engineering Data* 60 (2015), 2490-2494. **IF: 2.298, Indexed in ISI, Scopus**
- 17.** F Monajjemzadeh, **A Farjami**. Common problems in stress testing of pharmaceutical preparations, *Journal of molecular pharmaceutics & organic process research* 2 (2014)–Editorial **google scholar**
- 18.** F Monajjemzadeh, H Hamishehkar, P Zakeri-Milani, **A Farjami**, Hadi Valizadeh. Design and optimization of sustained-release divalproex sodium tablets with response surface methodology, *AAPS PharmSciTech* 14 (2013), 245-25. **IF: 2.608, Indexed in ISI, Scopus, PubMed, Embase**

### **Additional research projects**

- 1.** Investigation of light induced degradation of Aryotrust® (a biosimilar of trastuzumab) by ion exchange chromatography and size exclusion chromatography. Parvin Akbarzadeh, **Afsaneh farjami**, Nadia Mortaza. **Thesis of Undergraduate student of Pharmacy. Supervisore**

2. Investigation of Mechanically-induced aggregation of the concentrated and diluted zytux® (rituximab biosimilar) by size exclusion chromatography. Saba Ghaffari, **Afsaneh Farjami**, Parvin Akbarzadeh, Naghmeh Ranjbar. **Thesis of Undergraduate student of Pharmacy. Supervisore**
3. Complication finding of the supply chain of specific medicines and their prioritization by the analytic hierarchy process (AHP) (Case study: Pharmaceutical companies of East Azerbaijan province. Mohammadreza Siahi-Shadbad, **Afsaneh Farjami**, Ali Imani, Farhad Kiafar, Kamaledin Rahmani, Reza Mehrad. **Thesis of Undergraduate student of Pharmacy. Supervisore**
4. Physicochemical and Structural Study of Zytux® (Rituximab Biosimilar) under thermal and Freeze-Thaw Stresses. **Afsaneh Farjami**, Saba Gaffari, Mohammadreza Siahi-Shadbad, Parvin Akbarzadeh, Farnaz Monajjemzadeh, Sara Salatin. **Research Project -Grant**
5. Assessment of Physicochemical and Biological Stability of Reconstituted and Diluted Aryotrust® (Trastuzumab Biosimilar) Following Preparation for Intravenous Infusion. **Afsaneh Farjami**, Saba Gaffari, Mohammadreza Siahi-Shadbad, Parvin Akbarzadeh, Omme-Leila Molavi, Farnaz Monajjemzadeh, Sara Salatin. **Research Project**
6. Investigating the impact of of Phloretin on apoptosis in hepatocellular carcinoma. **Afsaneh Farjami**, Mahboob Nemati, Leili Aghebati, Saeedeh Soltani. **Research Project**
7. Extended stability of diluted Bevacizumab® under refrigerated condition. **Defined Research Project as thesis for undergraduate student of Pharmacy. Supervisore**
8. Investigation of degradation process in Rituximab® by limited proteolysis coupled with cation-exchange chromatography. **Defined Research Project as thesis for undergraduate student of Pharmacy. Supervisore**
9. Nano- Formulation of Phloretin effective in Alzheimer disease. **Defined Research Project as thesis for undergraduate student of Pharmacy. Supervisore**

10. Application of Mixture design in formulation and optimization of sustained release divalproex sodium tablets, (89/9/4), Drug Applied Research Center, 80 hours, main coworker.
11. Dispersive liquid–liquid micro-extraction and determination of some metals by spectrofluorimetric method, (92/3), Student Research Committee, 50 hours, main coworker.
12. Stability of Hydroquinone in contemporary semisolid preparations and compatibility with Azelaic acid, (93/2/7) Pharmacy Faculty, 50 hours, main coworker.
13. Mimicking the antibiofilm activity of peracetic acid and hydrogen peroxide in industrial water systems, (94/12/16) Pharmacy Faculty, 50 hours, main coworker.
14. Quality comparison of Plasma frozen within 24 hours (FP24) with Fresh Frozen Plasma (FFP), (96/10/15) National Institute for Medical Research Development (**Nimad**) project, 100 hours, main coworker.
15. Stability evaluation of epidermal growth factor receptor (EGFR) Inhibitor monoclonal antibody, cetuximab, (94/9/1), Pharmacy Faculty, 100 hours, main coworker.

## **Presentations and Congresses**

1. **Afsaneh Farjami**, Parvin Zakeri-Milani, Hadi valizadeh, Bioavailability study of two Clarithromycin suspensions following single oral dose to healthy volunteers, 15<sup>th</sup> seminar of Iranian Pharmacy Students (SIPS 2010), Kerman, Iran, October 2010.
2. **Afsaneh Farjami**, Farnaz Monajjemzadeh, Hamed Hamishehkar, Hadi Valizadeh, Parvin Zakeri-Milani, Application of Mixture design in



formulation and optimization of sustained release divalproex sodium tablets, 16th Iranian Pharmacy Students Seminar, Tehran, Iran, October 2011.

3. **Afsaneh Farjami**, Abolghasem Jouyban, Lamotrigine solubility in some nonaqueous solvent mixtures at 298.2 K, accepted in 21st international Iranian congress of physiology and pharmacology, which will be held in Tabriz, Iran, August 2013.
4. **Afsaneh Farjami**, Abolghasem Jouyban, Ali Shayanfar, Solubilization of Tadalafil using different cosolvents, The 13th Iranian Pharmaceutical Sciences Congress, Isfahan, Iran, September 2012.
5. **Afsaneh Farjami**, Vahid Panahi Azar, Elnaz Tamizi, Abolghasem Jouyban, Dispersive liquid-liquid microextraction and spectrofluorimetric determination of aluminum in fish, 1st Tabriz international life science and 12th Iran biophysical chemistry conference, Tabriz, Iran, May 2013.
6. **Afsaneh Farjami**, Farnaz Monajjemzadeh, Hamed Hamishehkar, Hadi Valizadeh, Parvin Zakeri-Milani, optimizing role of response surface methodology in the formulation of Divalproex Sodium sustained release tablets, the 5th Iranian controlled release conference, Mashhad, Iran, 2011.
7. **Afsaneh Farjami**, Vahid Panahi Azar, Elnaz Tamizi, Abolghasem Jouyban, Dispersive liquid-liquid microextraction for determination of copper in fish samples using spectrofluorimetry, 14th Iranian pharmaceutical sciences congress science (IPSC 2015), Tehran, Iran, 2015.
8. Somaieh Soltani, **Afsaneh Farjami**, Bioanalytical Method Validation, 4<sup>th</sup> International Meeting on Pharmacy & Pharmaceutical Sciences (IMPPS-4), Istanbul, Turkey, 2014.
9. **Afsaneh Farjami**, Mohammadreza Siahi-Shadbad, Parvin Akbarzadehlaleh, Ommoleila Molavi. "Development and Validation of Salt Gradient CEX Chromatography Method for Charge Variants Separation and Quantitative Analysis of the IgG mAb-Cetuximab." 2<sup>nd</sup> International and 10<sup>th</sup> National Biotechnology congress of Islamic Republic of Iran, Karaj, Iran, August 2017.

## Workshops

1. Workshop entitled Hospital pharmacy, at 15<sup>th</sup> seminar of Iranian Pharmacy Students (SIPS 2010), Kerman, Iran, October 2010.
2. Workshop on Iranian Traditional medicine, Medical History Research Center, Tabriz University of Medical Sciences, Tabriz, Iran, June 2012.
3. An introduction to stem cell workshop. Umbilical Stem Cell Research Center, Tabriz University of Medical Sciences, Tabriz, Iran 2013.
4. Workshop on Advanced Pubmed, Tabriz University of Medical Sciences, Tabriz, Iran, 2015.
5. Workshop on Ethics in medical researchers, Tabriz University of Medical Sciences, Tabriz, Iran, 2015.
6. Workshop on Real Time-PCR, Tabriz University of Medical Sciences, Tabriz, Iran, 2015.
7. Workshop on Introduction of spray drying and its application in pharmaceutical formulation. Tabriz University of Medical Sciences, Tabriz, Iran, 2017.
8. Workshop on PCR, Tabriz University of Medical Sciences, Tabriz, Iran, 2017.
9. Workshop on GMP, Tabriz University of Medical Sciences, Tabriz, Iran, 2016.
10. Workshop on Primer Design, Tabriz University of Medical Sciences, Tabriz, Iran, 2017.
11. Workshop on Reaxys Data base, Tabriz University of Medical Sciences, Tabriz, Iran, 2017.
12. Workshop on Teaching skills and techniques, Tabriz University of Medical Sciences, Tabriz, Iran, 2017.
13. Workshop on Ethics in publishing medical researchs, Tabriz University of Medical Sciences, Tabriz, Iran, 2019.