

Curriculum Vitae

PERSONAL DETAILS

Name: **Ali Akbar Alizadeh**
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Date and Place of Birth: Feb/20/1987, Tabriz, Iran
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Citizenship: Iran
Languages: Azari, Farsi and English

EDUCATION

2009- 2015 PhD of Medicinal Chemistry, Tabriz University of Medical Sciences, Iran
2003-2009 Doctor of Pharmacy (Pharm.D), Kermanshah University of Medical Sciences, Iran

RESEARCH AREAS

- Molecular Docking Studies for Prediction of Mode of Interaction of Peptides and Antibodies with TNF- α
- 2D & 3D QSAR studies on TNF- α Converting Enzyme Inhibitors
- Application of Antibody Phage display for Identification of Novel scFv Antibodies Against TNF- α
- Application of Peptide Phage display for Identification of Novel Peptide Ligands Against TNF- α
- Protein Expression, Purification, characterization, and Biological Evaluation

RESEARCH SKILLS

- Familiar with following Molecular modelling and molecular graphics softwares: Hyperchem, Dragon, ACDlabs, Deepview, MOE, Autodock, and Gold programs
- Familiar with following bioinformatics programs and databases: BLAST, ClustalW, Verify3D and Protein Data Bank
- Familiar with Phage display technique and molecular biology experiments such as working with different cell lines, bacterial culture, protein expression & purification, SDS-PAGE, Western Blot, agarose GE, plasmid purification, PCR, DNA digestion, Gene cloning, ELISA and MTT assay
- Familiar with different analyzing Methods such as Uv-vis spectroscopy, Fluorescence spectroscopy, Circular Dichroism polarimetry, and Voltammetric methods, as well as different Chromatographic methods like Affinity chromatography, Size Exclusion Chromatography, and Ion Exchange Chromatography

PUBLICATIONS

1. **Alizadeh AA**, Hamzeh-Mivehroud M, Farajzadeh M, Dastmalchi S (2016). Identification of novel peptides against TNF- α using phage display technique and in silico modeling of their modes of binding. **European Journal of Pharmaceutical Sciences**; In press.
2. **Alizadeh AA**, Hamzeh-Mivehroud M, Sokouti B and Dastmalchi S (2016) An alignment independent 3D-QSAR study on series of hydroxamic acid based Tumor necrosis factor- α converting enzyme inhibitors. **Journal of Chemometrics**; 9:537-547.
3. **Alizadeh AA**, Hamzeh-Mivehroud M, and Dastmalchi S (2015) Identification of Novel Single Chain Fragment Variable Antibodies Against TNF- α Using Phage Display Technology. **Advanced Pharmaceutical Bulletin**; 5:661-666.
4. **Alizadeh AA**, Hamzeh-Mivehroud M, and Dastmalchi S (2015) Production and purification of a novel anti-TNF- α single chain fragment variable antibody. **Advanced Pharmaceutical Bulletin**; 5:667-672.

5. **Alizadeh AA**, Hamzeh-Mivehroud M, Farajzadeh M, Moosavi-Movahedi AA, Dastmalchi S (2015). A Simple and Rapid Method for Expression and Purification of Functional TNF- α Using GST Fusion System. *Current pharmaceutical biotechnology*; 16(8):707-15.
6. Abolhasani H, Zarghi, A, Hamzeh-Mivehroud M, **Alizadeh AA**, Shahbazi Mojarrad J and Dastmalchi S (2015) *In-silico* Investigation of Tubulin Binding Modes of a Series of Novel Antiproliferative Spiroisoxazoline Compounds Using Docking Studies. *Iranian Journal of Pharmaceutical Research*; 14(1):141-7.
7. Hamzeh-Mivehroud M, **Alizadeh AA**, Morris MB, Church WB and Dastmalchi S (2013) Phage Display as a Technology Delivering on the Promise of Peptide Drug Discovery. *Drug Discovery Today*; 18(23-24):1144-57.
8. Hamzeh-Mivehroud M, **Alizade AA**, Ahmadifar M, Dastmalchi S (2012) In silico Evaluation of Crosslinking Effects on Denaturant meq values and ΔC_p upon Protein Unfolding. *Avicenna Journal of Medical Biotechnology*; 4(1): 23-34.
9. Ahmadi F, **Alizadeh AA**, Shahabadi N (2011) Study binding of Al-curcumin complex to ds-DNA, monitoring by multispectroscopic and voltammetric techniques. *Spectrochimica Acta A*; 79 1466-1477.
10. Ahmadi F, **Alizadeh AA**, Bakhshandeh-Saraskanrood F, Jafari B, Khodadadian M (2010) Experimental and computational approach to the rational monitoring of hydrogen-bonding interaction of 2-Imidazolidinethione with DNA and guanine. *Food and Chemical Toxicology*; 48 29-36.

PRESENTATIONS

ABSTRACTS:

1. Hamzeh-Mivehroud M, **Alizadeh AA**, Sokouti B and Dastmalchi S. An alignment independent 3D QSAR study on a series of TNF-alpha converting enzyme inhibitors (2014) *20th EuroQSAR* 31 August-04 September, St. Petersburg, Russia.
2. Maryam Hamzeh-Mivehroud, **Ali Akbar Alizadeh**, Malak Farajzadeh and Siavoush Dastmalchi. 3D QSAR study for a series of TNF-alpha converting enzyme inhibitors. *The First International Life Science & 12th Iran Biophysical Chemistry Conference* May, Tabriz, Iran.

3. Milad Abbasi, Maryam Hamzeh-Mivehroud, **Ali Akbar Alizadeh** and Siavoush Dastmalchi. Cloning, expression, and purification of DOF 2.1 zinc finger domain. (2013) *The First International Life Science & 12th Iran Biophysical Chemistry Conference* May, Tabriz, Iran.
4. Omid Jamshidi, Maryam Hamzeh-Mivehroud, **Ali Akbar Alizadeh** and Siavoush Dastmalchi. Cloning, expression, and purification of DOF 4.2 zinc finger domain. (2013) *The First International Life Science & 12th Iran Biophysical Chemistry Conference* May, Tabriz, Iran.
5. **A. Alizadeh**, M. Hamzeh-Mivehroud, M. Farajzadeh, S. Dastmalchi. Cloning, expression, and purification of human TNF- α (2012) *13th Iranian Pharmaceutical Sciences Congress* 3-6 September, Isfahan Iran.
6. **Alizadeh AA**, Hamzeh-Mivehroud M and Dastmalchi, S. Effects of structural constraints on thermodynamic parameters of protein unfolding. (2012) *The First International & 11th Iran Biophysical Chemistry Conference* 13-15 June, Ardebil, Iran.

7. TEACHING EXPERINCES

Practical Analytical Chemistry

*Department of Medicinal Chemistry
School of Pharmacy
Tabriz University of Medical Sciences
Tabriz, Iran*

Practical Instrumental Analysis

*Department of Medicinal Chemistry
School of Pharmacy
Tabriz University of Medical Sciences
Tabriz, Iran*

Protein expression & purification (workshop)

*Biotechnology Research Center
Tabriz University of Medical Sciences
Tabriz, Iran*

Participations

1. Referee in the field of Medicinal Chemistry. 17th Iranian Pharmacy Students Seminar, November, 2012, Kermanshah, Iran.
2. Referee in the field of Medicinal Chemistry. 18th Iranian Pharmacy Students Seminar, November, 2014, Tabriz, Iran.

همکاري در پروژه هاي تحقيقاتي مصوب معاونت پژوهشي دانشگاه علوم پزشکي تبريز با عناوين :

- بررسی امکان پیش بینی فعالیت بیولوژیک ترکیبات مهارکننده آنزیم مبدل فاکتور نکروز دهنده تومور-آلفا با استفاده از روابط کمی ساختمان - فعالیت (اتمام یافته).

- شناسایی پپتیدهای جدید علیه فاکتور نکروز دهنده ی تومور با استفاده از تکنیک نمایش فاژي (اتمام یافته).

- شناسایی آنتی بادی های تک زنجیره ای جدید علیه فاکتور نکروز دهنده ی تومور با استفاده از تکنیک نمایش فاژي (اتمام یافته).