

Curriculum vitae

-----Contact Information-----

First Name: Bahman

Second Name: Akbari

Academic Rank: Assistant Professor

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-----PERSONAL INFORMATION-----

Date of Birth: 02/02/1979

Place of Birth: Kermanshah, Iran

Gender: Male

Marital Status: Married

Children: 2

-----EDUCATION-----

- 2012 - 2017 Tariz University of Medical Sciences, Tabriz, Iran, Ph.D. in
Medical Biotechnology.

- ✓ Thesis title: **Preparation and evaluation of toxicity of anti- epidermal growth factor receptor (EGFR) immunotoxin containing truncated *Pseudomonas aeruginosa* exotoxin-A and humanized single chain fragment variable.**

-2001 - 2003 Shahid Beheshti University, Tehran, Iran, M.Sc. in Genetic.

- 1997 - 2001 Razi University, Iran, B.Sc. in Biology.

----- VARIOUS COMPETENCIES -----

-Languages:

Kurdish (native), Persian (fluently), English (Semi fluently)

- Laboratory Skills:

Molecular Biology and DNA recombinant technology: Nucleic acid Extraction, Cell culture, SDS-PAGE, Agarose Gel Electrophoresis, Protein Purification, Cloning and sub-cloning procedure, PCR, ELISA, Western blotting, Dot blotting, MTT assay, Microbial culture.

- Computer and software skills:

YASARA software , Codon optimization, Gene Runner, CLUSTAL W
IMGT/Domain GapAlign, Rare codon analysis, Primer design.

Power Point, Word, Excel, Internet.

----- AWARDS -----

- Ranked 2th in Biology during B.Sc. at University of Razi, 2001

- Ranked 2th in Medical Biotechnology during Ph.D. at Tabriz University of Medical Sciences, 2017

-----WORK EXPERIENCE-----

From 2017- to date-Worked as assistant professor at Kermanshah University of Medical Sciences

-----PUBLICATIONS-----

- Articles

1- **Bahman Akbari**, Safar Farajnia, Shiva Ahdi Khosroshahi, Fatemeh Safari, Mohammadreza Yousefi, Leila Rahbarnia, Hassan Dariushnejad (2017)

Immunotoxins in Cancer Therapy: review and update, International reviews of immunology, ISI (IF:3.27). 36(4):207-219.

<http://dx.doi.org/10.1080/08830185.2017.1284211>. PMID: 28282218.

2- **Akbari B.**, Farajnia S., Zarghami N., Mahdieh N., Rahmati M., Khosroshahi S.A. and Rahbarnia L. (2017) Construction, expression and activity of a novel immunotoxin comprising a humanized anti-epidermal growth factor receptor single-chain variable fragment antibody and modified Pseudomonas aeruginosa exotoxin A. Anti-Cancer Drugs, ISI (IF:2.32). 28(3):263-270. doi:

10.1097/CAD.0000000000000045.

3- Akbari B., Farajnia S., Zarghami N., Mahdieh N., Rahmati M., Khosroshahi S.A. and Rahbarnia L. (2016) Design, expression and evaluation of a novel humanized single chain antibody against epidermal growth factor receptor (EGFR). *Protein expression and purification*, ISI (IF: 1.35). 127:8-15. doi: 10.1016/j.pep.2016.06.001.

4- Shiva Ahdi Khosroshahi, Safar Farajnia, Mehdi Ghiamirad, Asghar Tanomand, Kamal Veisi, Leila Rahbarnia, Bahman Akbari: Development and evaluation of a single domain antibody against human epidermal growth factor receptor (EGFR), *Protein expression and purification*, ISI (IF:1.35). 2016; 120:59-64. doi: 10.1016/j.pep.2015.12.005.

5- Mahdieh N, Shirkavand A, Rabbani B, Tekin M, Akbari B, Akbari MT, Zeinali S.

Screening of OTOF mutations in Iran: a novel mutation and review.

International

Journal of Pediatric Otorhinolaryngology, ISI (IF: 1.16). 2012; 76(11):1610-5. doi: 10.1016/j.ijporl.2012.07.030.

6- Leila Rahbarnia, Safar Farajnia, Hossein Babaei, Jafar Majidi, Kamal Veisi,

Asghar Tanomand, Bahman Akbari. (2016) Invert biopanning: A novel method for efficient and rapid isolation of scFvs by phage display technology. *Biologicals*, ISI (IF: 1.6). 44(6):567-573. doi: 10.1016/j.biologicals.2016.07.002.

7- Leila Rahbarnia, Safar Farajnia, Hossein Babaei, Jafar Majidi, Bahman Akbari, Shiva Ahdi Khosroshahi. (2016) Development of a Novel Human Single Chain Antibody Against EGFRVIII Antigen by Phage Display Technology. *Advanced pharmaceutical boltin,Q1*. 6(4):563-571. doi: 10.15171/apb.2016.070.

8- Leila Rahbarnia, Safar Farajnia, Hossein Babaei, Jafar Majidi, Kamal Veisi, Vahideh Ahmadzadeh & Bahman Akbari (2017) Evolution of Phage Display technology: From Discovery to Application, *Journal of Drug Targeting*, ISI (IF:3.068). 25(3):216-224. doi: 10.1080/1061186X.2016.1258570.

9- Sheidai, M., Sottodeh, M. and Akbarei, B. (2007) Cytogenetic variability in several oil seed rape cultivars. *Pakistan Journal of Biological Science*, 10(4): 553-560. (IF: 0.7)

10- Nejat Mahdijeh, Atefe Bahmanh Shirkavand, Bahareh Rabbani, Bahman Akbari, *et al* (2013) Detection of mutations in the GJB2 gene with MLPA probes in deaf heterozygotes. *Research in Medicine*, 36 (5): 93-98.

11- Mohammadreza Yousefi, Safar Farajnia, Ahad Mokhtarzadeh, Bahman Akbari, *et al* (2018). Soluble Expression of Humanized Anti-CD20 Single Chain Antibody in Escherichia coli by Cytoplasmic Chaperones Co-expression. *Avicenna Journal of Medical Biotechnology*. 10(3): 141-146.

-Seminar presentations

1) Recombinant immunotoxins as a new strategy for targeted cancer therapy. Bahman Akbari, Safar Farajnia, Nejat Mahdijeh, Shiva Ahdi. *13th International Congress of Immunology & Allergy of Iran 26th- 29th April, 2016 Tabriz-Iran.*

2) Preparation of a humanized single chain antibody (hscfv) targeting EGFR-over expressing cancers. Bahman Akbari, Safar Farajnia, Nosratollah Zarghami, Nejat Mahdijeh, Abolfazl Barzegar, Mohammad Rahmati, Shiva Ahdi khosroshahi. *1st International and 9th National Biotechnology Congress of Islamic Republic of Iran, Shahid Beheshti University, Tehran, Iran; May 24-26, 2015.*

3) Bahman Akbari, M. shedai (2003) Cytogenetic Study of some Brassica napus Cultivers in IRAN, *the First National Congress of Molecular Cell Biology Chamran University of Ahvaz-Dept. of Biology p.125 .*

4) Development and evaluation of a humanized immunotoxin against epidermal growth factor receptor-overexpressing tumors. **Bahman Akbari**, Safar Farajnia. *2st International and 10th National Biotechnology Congress of Islamic Republic of Iran, Seed and Plant Improvement Institute, Karaj, Tehran, Iran; August 29-31, 2017.*

5) Optimization of refolding process for recombinant anti-EGFR single chain antibody produced in the *E. coli*. **Bahman Akbari**, Safar Farajnia. *2st International and 10th National Biotechnology Congress of Islamic Republic of Iran, Seed and Plant Improvement Institute, Karaj, Tehran, Iran; August 29-31, 2017.*

- Research Projects

- 1) Preparation and evaluation of toxicity of anti-epidermal growth factor receptor (EGFR) immunotoxin containing truncated *Pseudomonas aeruginosa* exotoxin-A and humanized single chain fragment variable.
- 2) Optimization of refolding process for recombinant humanized anti-EGFR single chain antibody produced in the *E. coli*.

-Books

۱- ترنس اوستن براون، شیرین قدمی (مترجم)، مرضیه موج بافان (مترجم)، **بهمن اکبری (مترجم و زیر نظر)**، نجات مهدیه (زیر نظر). مقدمه‌ای بر کلون سازی ژن و آنالیز DNA. جامعه نگر- ۱۳۹۲: ویرایش ۶: ۳۳۶ صفحه-وزیری- چاپ ۱- ۰-۲۲۸-۱۰۱-۶۰۰-۹۷۸.

۲- **بهمن اکبری (گردآورنده)**، محمدرضا عاشوری (گردآورنده)، عبدالمجید قاسمیان (گردآورنده)، سعیده عبدالله پور (همکاری). مجموعه آزمون‌های ارشد بیوتکنولوژی پزشکی وزارت بهداشت و وزارت علوم ۱۳۷۹ - ۱۳۹۳ با پاسخ تحلیلی و نکات تکمیلی. جامعه نگر- ۱۳۹۲: ویرایش سوم: ۶۱۲ صفحه-وزیری- چاپ اول-۲-۲۸۲-۱۰۱-۶۰۰-۹۷۸.

۳- **بهمن اکبری (گردآورنده)**، مرضیه موج بافان (گردآورنده)، فائقه کاظمی (گردآورنده)، رقیه علیزاده (گردآورنده) نجات مهدیه (زیرنظر). مجموعه آزمون‌های دکتری بیوتکنولوژی پزشکی وزارت بهداشت ۱۳۹۳-۱۳۸۰ با پاسخ تحلیلی و نکات تکمیلی. برای فردا-۱۳۹۴: ویرایش اول-: ۳۰۴ صفحه-وزیری-چاپ اول-۵-۵۱-۱۵۵-۶۰۰-۹۷۸.

۴- **بهمن اکبری (گردآورنده)**، شیرین قدمی (گردآورنده)، مریم سنجری پور (گردآورنده)، محمد امین جاویدی (گردآورنده)، نجات مهدیه (زیرنظر). مجموعه آزمون‌های کارشناسی ارشد زیست شناسی ژنتیک - بیوشیمی سلولی مولکولی با پاسخ تحلیلی و نکات تکمیلی. جامعه نگر- ۱۳۹۱: ویرایش: ۵۶۰ صفحه- وزیری-چاپ-۲-۲۰۸-۱۰۱-۶۰۰-۹۷۸.

۵- محمدرضا عاشوری (مؤلف)، **بهمن اکبری (مؤلف)**، الهه دلیر عبدالهی نیا (مؤلف) و مریم غلامی (مؤلف). نجات مهدیه. (زیرنظر). مروری جامع بر بیوتکنولوژی- برای فردا-۱۳۹۵. ویرایش اول. ۴۹۱ صفحه- وزیری ۴-۰۷۴-۱۵۵-۶۰۰-۹۷۸.

۶- **بهمن اکبری (مؤلف)**. میوه‌ها و بهترین خوراکی از منظر قرآن- طب سنتی و طب جدید. زبان آکادمیک. ۱۳۹۵. چاپ اول-۸۰ صفحه-رحلی-۵-۰۴-۸۶۵۲-۶۰۰-۹۷۸.

۷- **بهمن اکبری (گردآورنده)**، عبدالمجید قاسمیان (گردآورنده)، افسانه سید میکائیلی (گردآورنده). سعیده عبدالله پور (همکاری) مجموعه آزمون‌های ارشد بیوتکنولوژی پزشکی وزارت بهداشت و

وزارت علوم ۱۳۷۹ - ۱۳۹۵ با پاسخ تحلیلی و نکات تکمیلی. جامعه نگر- ۱۳۹۵: ویرایش چهارم:
۶۷۴ صفحه-وزیری- چاپ اول ۸-۵۷۴-۱۰۱-۶۰۰-۹۷۸.

-----**COURSE TEACHING**-----

M.Sc of Medical Biotechnology (2017-Now)

- Medical Informatics Systems
- Pathobiology (Microbiology and Immunology)
- Special English
- Cellular and Molecular Biology
- Principles of Standardization and Safety of Biological Products
- Culture of Animal Cells
- Genetic Engineering (Theory)
- Genetic Engineering (Practice)
- Principles of Working with Laboratory Animals
- Bioinformatics
- Medical Genetics
- Introductory Nanobiotechnology

- Principles of Economy and Intellectual Property

Ph.D. (2018)

- Cancer biochemistry

WORKSHOP

- MENDELEY

- Cochrane systematic review

- Primer design

- GMP of clean rooms

- Patent and intellectual property

MEMBERSHIP

- Iranian Society for Biotechnology

- Member of the Research Council of Faculty of Medicine, Kermanshah

University of Medical Sciences, Kermanshah, Iran

- Member of Educational planning division, Education Development Center,

Kermanshah University of Medical Sciences, Kermanshah, Iran

- Member of Professional Ethics Committee, Education Development Center,

Kermanshah University of Medical Sciences, Kermanshah, Iran

- Member of Ideological Committee, Education Development Center,
Kermanshah University of Medical Sciences, Kermanshah, Iran

- Member of Virtual Education Committee of Faculty of Medicine, Kermanshah
University of Medical Sciences, Kermanshah, Iran

-Iranian Society for Immunology and Allergy

- Iranian Red Crescent

-Ahleghalam

-----**RESEARCH INTERESTS**-----

- Design, Production, Purification and evaluation of humanized or fully human monoclonal antibodies (mAbs) formats.
- Design, Production, Purification and evaluation of various next generation immunotoxins.
- Cloning of recombinant proteins or peptides in prokaryotic and eukaryotic expression systems as cancer vaccines or therapeutic applications.
- Combination Therapy (Gene, mAb and chemical drug together) for cancer treatment with novel Nano carriers.
- Designing and targeting of novel Nano carriers (Biodegradable or biocompatible polymers, micelles or niosomes) for cancer therapy with genes or mAbs
- Bioinformatics investigations

-----REFERENCES-----

Nosratollah Zarghami, Ph.D.

(Head of my Ph.D department)
Full Professor of Biotechnology,
Department of Medical Biotechnology
Tabriz University of Medical Sciences
Tabriz, Iran.

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Safar Farajnia, Ph.D.

(Ph.D. thesis promoter and the head of my Ph.D.
lab)

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Department of Molecular biology,
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