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PERSONAL INFORMATION

Date of Birth: February 04, 1970  
Nationality: Iranian  
Marital status: Married

POSITIONS

- Associate professor of Immunology, Department of Immunology, Faculty of Medicine, Tabriz University of Medical Sciences  
- THE HEAD OF IMMUNOLOGY RESEARCH CENTER, Tabriz University of Medical Sciences

ADMINISTRATIVE EXPERIENCE

- THE HEAD OF IMMUNOLOGY RESEARCH CENTER 2009- Present  
- The Head of Olympiad in Basic Sciences 2013-2016  
- DEPUTY IMMUNOLOGY DEPARTMENT FOR EDUCATION 2009-2013  
- The Head of Immunology lab in Imam Reza Hospital 2009-2014  
- Executive Secretary of 13th international congress of Immunology and Allergy Tabriz, Iran 2016
EDUCATIONAL BACKGROUND

2016-2017 Fellowship in microRNA replacement Therapy, Diamantina Translational Research Institute, University of Queensland

2008-2009 Advanced courses on Gene Therapy of Cancer, University of Melbourne

2005 – 2010 Ph.D Immunology Tarbiat Modaress University

2001- 2004 MSc Immunology Tarbiat Modaress University

1994- 1998 Laboratory Medicine Tabriz University

EDUCATIONAL INFORMATION

1. 1st rank in national competition (2001)
2. Ph.D graduation score (17.25 out of 20)
3. MSc graduation score (17.6 out of 20)
4. MSc Thesis score (19.7 out of 20)
5. MSc Thesis title: Production of Monoclonal Anti body Against Human IgG In Balb/c Mouse And Comparison With Anti-IgG Standard

5. Ph.D Thesis title: Production of Monoclonal Anti-EGFR-recombinant PE38 Immunotoxin and Evaluation of its Effect on Induction of Apoptosis in Tumoral cell line

Awards

- 2013; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran)
- 2014; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran)
- 2015; Top Professor of Tabriz University of Medical Sciences (Tabriz, Iran)
- 2015; Top Technologist of Tabriz University of Medical Sciences (Tabriz, Iran)
- 2017; Top Researcher in East Azarbijan province (Tabriz, Iran)
- 2017; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran)

The major research areas

- Immunotherapy of cancers
- Genetherapy of cancers
- microRNA replacement therapy for cancers

SHORT COURSES & WORKSHOPS

7-8 April 2007 Real Time PCR: principle and Applications workshop Biotechnology Research Center. Tabriz

3-5 Feb 2007 Microbiological Methods Applied in DNA Manipulation and
CURRICULUM VITAE, BEHZAD BARADARAN

**Gene Cloning**
Biotechnology Research Center, Tabriz
15-16 Dec 2003

**Guaranty of Quality in Serological Lab**
Research Center of Reference Labs
1-2 May 2008

**Challenges in gene delivery for gene therapy applications**
By Enrico Mastrobattista in Tabriz International Medical Congress
2009-2010

**University Skills**
by EDC

**PUBLICATIONS**

**A) JOURNAL PAPERS**

1. **Production and characterization of monoclonal antibodies against human IgG in Balb/c mouse**, J. Majidi, **B. Baradaran**, Z.M. Hassan and A. Mostafaie, Human Antibodies 14 (2005) 1–5

2. **Large Scale Production and Characterization of Anti-Human IgG Monoclonal Antibody in Peritoneum of Balb/c MICE, B. Baradaran**, J.Majidi, ZM.hassan and J.Abdolalizadeh, American Journal of Biochemistry and Biotechnology 1 (4): 189-192, 2005

3. **Development and Characterization of Monoclonal Antibodies against Human Epidermal Growth Factor Receptor (EGFR) in Balb/c Mice, Behzad Baradaran, Ahmad Zavaran Hosseini, Jafar Majidi, Jaleh Barar, Safar Farajnia, Zohair Hassan Saraf, Jalal Abdolalizadeh and Yadollah Omidi, Human Antibodies, 18 (2009) 11–16

4. **Target therapy of cancer: Implementation of monoclonal antibodies and nanobodies**, Jafar Majidi, Jaleh Barar, Behzad Baradaran, Jalal Abdolalizadeh and Yadollah Omidi, Human Antibodies 18 (2009) 81–100

5. **Suppression of nitric oxide production in activated murine peritoneal macrophages invitro and exvivo by Scrophularia striata ethanolic extract**, Abbas Azadmehr, Afshin Afshari, **Behzad Baradaran**, Reza Hajiaghaee, Shamsali Rezazadeh, Hamidreza Monsef-Esfahani, Journal of Ethnopharmacology 124 (2009) 166–169

6. **Interleukin-17A and Interleukin-17F mRNA Expression in Peripheral Blood Mononuclear Cells of Patients with Multiple Sclerosis.** Zohreh Babaloo, Farhad Babaie, Mehdi Farhoodi, Mohamad Reza Aliparasti, **Behzad Baradaran, Shohreh Almasi and Ahmad Hoseini**, Iran J Immunol 7(4):202-9 (2010)

7. **Recombinant expression and purification of L2 domain of human epidermal growth factor receptor**, Elnaz Salehi, Safar Farajnia, Kazem
8. Cytotoxic and Apoptotic Effects of Ornithogalum cuspidatum Methanolic Extract on WEHI-164 Fibrosarcoma Cancer Cell Line, Samavati M, Babaloo Z, Delazar A, Baradaran B, Nazifiee E, Mohammadi A, Movasaghpour A, Pharmaceutical Sciences, 2010, Vol.16, No 3, 149-156

9. Impacts of anti-EGFR monoclonal antibody in prostate cancer PC3 cells. Alireza Rezaie, Majidi, Behzad Baradaran, Aliakbar Movasaghpin, Ailar Nahlband, Jaleh Barar and Yadollah Omidi, Hum Antibodies, 19(2):63-70 (2010)

10. Evaluation of Lavandula officinalis Extract on Lymphocyte Proliferation and Tumor Necrosis Factor-alpha Production, Azadmehr A, Hajiaghaee R, Rezazadeh Sh, Afshari A, Kiani amin M, Baradaran B, Ebrahim P, Journal of medicinal Plants, 2011, 38(2), 142-148

11. Preparation of Chitosan-Plasmid DNA Nanoparticles Encoding interleukin-12 and their Expression in CT-26 Colon Carcinoma Cells, Somayeh Hallaj-Nezhadi, Hadi Valizadeh, Siavoush Dastmalchi, Behzad Baradaran, Mohammad Barzegar Jalali,Faramarz Dobakhti, Farzaneh Lotfipour, J Pharm Pharmaceut Sci, 2011, 14(2) 181 – 195

12. Correlation between superoxide dismutase 1 gene expression with lactate dehydrogenase enzyme and free radicals in female athletes:effects of incremental intensity exercises, Behzad Baradaran, Bakhtiar Tartibian, Behrouz Baghaiee. Amir Monfaredan, Tehran University Medical Journal, July 2012; Vol. 70, No. 4: 212-219

13. Enhanced Radiosensitivity and Chemosensitivity of Breast Cancer Cells by 2-Deoxy-D-Glucose in Combination Therapy, Fahimeh Aghae, Jalil Pirayesh Islamian, Behzaad Baradaran, J Breast Cancer 2012 June; 15(2): 141-147

14. Evaluation of cytotoxic effect of methanolic extract fractions of Ornithogalum cuspidatum on WEHI-164 fibrosarcoma cancer cell line. Valiyari S., Asadi H., Baradaran B., Babaloo Z., Delazar A.,Amirkhizi M., Pharmaceutical Sciences, 2012, Vol. 18, No. 1, Page 19-24

15. Downstream characterization of anti-TNF-α single chain variable fragment antibodies, Jalal Abdolalizadeh, Mohammad Nouri, Jafar Majidi Zolbanin, Behzad Baradaran, Abolfazl Barzegari, Yadollah Omidi, Human Antibodies 21 (2012) 41–48

16. Insights into Behçet’s disease, Fatemeh Zare Shahneh, Zohreh Babalo, Behzad Baradaran, Koushan Sineh Sepehr, Postep Derm Alergoi 2012; XXIX, 6: 461-466
17. Dichloromethane and Methanol Extracts of Scrophularia oxysepala Induces Apoptosis in MCF-7 Human Breast Cancer Cells, Samira Valiyari, Behzad Baradaran, Abbas Delazar, Ardalan Pasdaran, Fateme Zare, Advanced Pharmaceutical Bulletin, 2012, 2(2), 223-231

18. Behcet’s Syndrome in Iranian Azari People, Fatemeh Zare Shahneh, Zohreh Babaloo, Behzad Baradaran, Fatemeh Hamzavi, Babak Bayazi, Ali Bandehagh, Pakistan Journal of Biological Sciences, 2012, 15(21):1045-1047

19. Development and characterization of monoclonal antibodies against human CD20 in Balb/c mice, Koushan Sineh Sepehr, Behzad Baradaran, Jafar Majidi, Jalal Abdolalizadeh, Leili Aghebati, Fatemeh Zare Shahneh, Human Antibodies 21 (2012) 57–64

20. Inhibition of MEK/ERK1/2 Signaling Affects the Fatty Acid Composition of HepG2 Human Hepatic Cell Line, Bahman Yousefi, Masoud Darabi, Behzad Baradaran, Mahmoud Shekari Khaniani, Mohammad Rahbani, Maryam Darabi, Shabnam Fayezi, Amir Mehdizadeh, Negar Saliani, Maghsod Shaaker, BioImpacts, 2012, 2(3), 145-150

21. Tumor angiogenesis and anti-angiogenic Therapies, Fatemeh Zare Shahneh, Behzad Baradaran, Fatemeh Zamani and Leili Aghebati-Maleki, Human Antibodies 00 (2013) 1–5

22. Studies on the Cytotoxic Activities of Punica granatum L. var. spinosa (Apple Punice) Extract on Prostate Cell Line by Induction of Apoptosis, Koushan Sineh Sepehr, Behzad Baradaran, Masoumeh Mazandarani, Vahid Khoi and Fatemeh Zare Shahneh, ISRN Pharmaceutics, 2012, Article ID 547942, 6 pages

23. New Approach to Red Blood Cell Classification Using Morphological Image Processing, Mojtaba Taherisadr, Mona Nasirzonouzi, Behzad Baradaran, Ali Reza Mehdizade, Shiraz E-Medical Journal Vol. 14, No. 1, January 2013

24. Recombinant Expression and Purification of Pseudomonas aeruginosa Truncated Exotoxin A in Escherichia coli, Behzad Baradaran, Safar Farajnia, Jafar Majidi, Yadollah Omidi, Nazli Saeedi, Pharmaceutical sciences, 2013, 19(1), 31-34

25. Production and characterization of murine monoclonal antibody against synthetic peptide of CD34, Leili Aghebati Maleki, Jafar Majidi, Behzad Baradaran, Jalal Abdolalizadeh and Aliakber Movassaghpour Akbari, Human Antibodies 00 (2013) 1–8

26. Future prospects of monoclonal antibodies as magic bullets in Immunotherapy, Leili Aghebati Maleki, Behzad Baradaran, Jafar Majidia,
Mozhdeh Mohammadian and Fatemeh Zare Shahneh, Human Antibodies 00 (2013) 1–5

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28. Production of Anti-CD14 monoclonal antibody using synthetic peptide of human CD14 as immunizing antigen, Leili Aghebati Maleki, Dariush Shanelbandi, Jafar Majidi, Mehdi Yusefi, Jalal Abdolalizadeh, Mona Orangi and Behzad Baradaran, Human Antibodies 22 (2013) 67–71

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30. Preparation and Characterization of Chitosan/β-cyclodextrin Nanoparticles Containing Plasmid DNA Encoding Interleukin-12, M. Nahaei, H. Valizadeh, B. Baradaran, M. R. Nahaei, D. Asgari, S. Hallaj-Nezhadi, S. Dastmalchi, F. Lotfi pour, Drug Res (Stuttg), 2012;62: 1–6

31. Inhibition of Growth and Induction of Apoptosis in Fibrosarcoma Cell Lines by Echinophora platyloba DC: In Vitro Analysis, Fatemeh Zare Shahneh, Samira Valiyari, Abbas Azadmehr, Reza Hajiaghae, Saeid Yaripour, Ali Bandeagh, and Behzad Baradaran, Advances in Pharmacological Sciences, Volume 2013, Article ID 512931, 7 pages

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33. Affinity Purification of Tumor Necrosis Factor-α Expressed in Raji Cells by Produced scFv Antibody Coupled CNBr-Activated Sepharose, Jalal Abdolalizadeh, Jafar Majidi Zolbanin, Mohammad Nouri, Behzad Baradaran, Ali Akbar Movassaghpour, Safar Farajnia, Yadollah Omidi, Advanced Pharmaceutical Bulletin, 2013, 3(1), 19-23

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36. Large Scale Generation and Characterization of Anti-Human CD34 Monoclonal Antibody in Ascetic Fluid of Balb/c Mice. Leili Aghebati Maleki, Jafar Majidi, Behzad Baradaran, Jalal Abdolalizadeh, Tohid Kazemi, Ali Aghebati Maleki, Koushan Sineh sepehr , Advanced Pharmaceutical Bulletin, 2013, 3(1), 211-216

37. Association of Expanded Disability Status Scale and Cytokines after Intervention with Co-supplemented Hemp Seed, Evening Primrose Oils and Hot-natured Diet in Multiple Sclerosis Patients, Soheila Rezapour-Firouzi1, Seyed Rafie Arefhosseini, Mehdi Farhoudi, Mehrangiz Ebrahimimamaghani, Mohammad-Reza Rashidi, Mohammad-Ali Torbati, Behzad Baradaran, BioImpacts, 2013, X(X), X-X

38. PPARγ agonist-induced alterations in Δ6-desaturase and stearoyl-CoA desaturase 1: Role of MEK/ERK1/2 pathway, Negar Saliani, Masoud Darabi, Bahman Yousefi, Behzad Baradaran, Mahmoud Shekari Khaniani, Maryam Darabi, Maghsod Shaaker, Amir Mehdizadeh, Tahereh Naji, Mehrdad Hashemi, World J Hepatol 2013 April 27; 5(4): 220-225

39. Effect of IMOD™ on the inflammatory process after acute ischemic stroke: a randomized clinical trial, Mehdi Farhoudi, Mahdi Najafi-Nesheli, Mazyar Hashemil, Ata Mahmoodpoor, Ehsan Sharifipour, Behzad Baradaran, Aliakbar Taheraghdam, Daryoush Savadi-Oskouei, Homayoun Sadeghi-Bazargani1, Elyar Sadeghi-hokmabadi, Hosein Akbari, Reza Rikhtegar, DARU Journal of Pharmaceutical Sciences 2013, 21:26

40. Targeting Cytokines: Production and Characterization of Anti-TNF-α scFvs by Phage Display Technology. Jalal Abdolalizadeh, Mohammad Nouri, Jafar Majidi Zolbanin, Abolfazl Barzegari, Behzad Baradaran, Jaleh Barar, George Coukos and Yadollah Omidi, Current Pharmaceutical Design, 2013, 19, 000-000

41. Development of Leptospira Killed Whole Culture Vaccine Using Different Adjuvants and Evaluation of Humoral Immune Response in Hamsters, R. Banihashemi, B. Baradaran, M. Tebianian, J. Majidi, A. Jabbari, S. Jalali, H.mohammadpour, K. Tadayyon, M. Sekhavati, R. Ghaderi, G. shokri, J Vaccines Vaccin, 2013, 4:4

42. Targeting Stat3 and Smad7 to restore TGF-b cytostatic regulation of tumor cells in vitro and in vivo, RB Luwor, B Baradaran, LE Taylor, J Iaria, TV Nheu, N Amiry, CM Hovens, B Wang, AH Kaye, H-J Zhu, Oncogene (2012), 1–9

43. Enhancing the Effects of Low Dose Doxorubicin Treatment by the Radiation in T47D and SKBR3 Breast Cancer Cells, Fahimeh Aghae, Jalil Pirayesh Islamian, Behzad Baradaran, Asghar Mesbahi, Mohammad Mohammadzadeh, Mohammad Asghari Jafarabadi, J Breast Cancer, 2013 June; 16(2): 164-170
44. What role can bispecific antibodies play in cancer targeting? A hypothesis, Vala Kafil, Behzad Baradaran, Yadollah Omidi, Medical Hypotheses 81 (2013) 44–46

45. Preparation and characterization of gelatin nanoparticles containing pDNA encoding IL-12 and their expression in CT-26 carcinoma cells, Somayeh Hallaj-Nezhadi, Hadi Valizadeh, Behzad Baradaran, Faramarz Dobakhti, Farzaneh Lotfipour, Future Oncol. (2013) 9(8), 1195–1206

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47. Induction of apoptosis by grape seed extract (Vitis vinifera) in oral squamous cell carcinoma, Amirala Aghbali, Sepideh Vosough Hosseini, Abbas Delazar, Nader Kalbasi Gharavi,Fatemeh Zare Shahneh, Mona Orangi, Ali Bandehagh, Behzad Baradaran, Bosn J Basic Med Sci 2013; 13 (3): 186-191

48. Immunomodulatory and therapeutic effects of Hot-nature diet and co-supplemented hemp seed, evening primrose oil intervention in multiple sclerosis patients, Soheila Rezapour-Firoozia, Seyed Rafie Arefhosseinic,Farhoudi Mehdia, Ebrahimi-Mamaghani Mehrangizb, Behzad Baradaran, Elyar Sadeghihokmabadi, Somaiyeh Mostafaeia, Seyed Mohammad Bagher Fazlju, Mohammad-ali Torbatifar, Sarvin Sanaieb, Fatemeh Zamani, Complementary Therapies in Medicine (2013) xxx, xxx—xxx

49. Quantitative evaluation of CXCL8 and its receptors (CXCR1 and CXCR2) gene expression in Iranian patients with multiple sclerosis, Shohreh Almasi, Mohammad Reza Aliparasti, Mehdi Farhoudi, Zohreh Babaloo, Behzad Baradaran, Fatemeh Zamani, Homayoun Sadeghi-Bazargani, Somaiyeh Mostafaei, Elyar Sadeghi Hokmabadi, Immunological Investigations, 2013

50. Induction of CD14 Expression and Differentiation to Monocytes or Mature Macrophages in Promyelocytic Cell Lines: New Approach, Fatemeh Zamani, Fatemeh Zare Shahneh, Leili Aghebat-Maleki, Behzad Baradaran, Advanced Pharmaceutical Bulletin, 2013, 3(2), 329-332

51. In vitro Cytotoxic Activity of Four Plants Used in Persian Traditional Medicine, Fatemeh Zare Shahneh, Behzad Baradaran, Mona Orangi, Fatemeh Zamani, Advanced Pharmaceutical Bulletin, 2013, 3(2), 453-455

52. A Unique Report: Development of Super Anti-Human IgG Monoclonal with Optical Density Over Than 3, Leili Aghebat-Maleki, Behzad
Baradaran, Jalal Abdolalizadeh, Fatemeh Ezzatifar, Jafar Majidi, Advanced Pharmaceutical Bulletin, 2013, 3(2), 333-337

53. Gene Therapy, Early Promises, Subsequent Problems, and Recent Breakthroughs, Saeideh Razi Soofiyan, Behzad Baradaran, Farzaneh Lotfpour, Tohid Kazemi, Leila Mohammadnejad, Advanced Pharmaceutical Bulletin, 2013, 3(2), 249-255

54. HLA-G Expression Pattern: Reliable Assessment for Pregnancy Outcome Prediction, Elnaz Mosaferi, Jafar Majidi, Mozhdeh Mohammadnejad, Behzad Baradaran, Advanced Pharmaceutical Bulletin, 2013, 3(2), 443-446

55. Cytotoxic Effects of Alcoholic Extract of Dorema Glabrum Seed on Cancerous Cells Viability, Maryam Bannazadeh Amirkhiz, Naderreh Rashitchizadeh, Hosein Nazemieh, Jalal Abdolalizadeh, Leila Mohammadnejad, Behzad Baradaran, Advanced Pharmaceutical Bulletin, 2013, 3(2), 403-408

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57. siRNA-mediated Silencing of Survivin Inhibits Proliferation and Enhances Etoposide Chemosensitivity in Acute Myeloid Leukemia Cells, Hadi Karami, Behzad Baradaran, Ali Esfahani, Mehrdad Asghari Estiar, Mohammad Naghavi-Behzad, Masoud Sakhinia, Ebrahim Sakhinia, Asian Pacific Journal of Cancer Prevention, 2013, Vol 14, 7719-7724

58. ERYTHROCYTE MEMBRANE FATTY ACIDS IN MULTIPLE SCLEROSIS PATIENTS AND HOT-NATURE DIETARY INTERVENTION WITH CO-SUPPLEMENTED HEMP-SEED AND EVENING-PRIMROSE OILS, Soheila Rezapour-Firouzi, Seyed Rafie Arefhosseini, Mehrangiz Ebrahimi-Mamaghani, Mehdi Farhoudi, Behzad Baradaran, Torbati Mohammad Ali, Fatemeh Zamani, Afr J Tradit Complement Altern Med. (2013) 10(6):518-526

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60. Cytotoxic activities of Ferulago angulata extract on human leukemia and lymphoma cells by induction of apoptosis, Fatemeh Zare Shahneh, Samira Valiyari, Abbas Azadmehr, Reza Hajighaee, Ali Bandehagh, Behzad Baradaran, Journal of Medicinal Plants Research Vol. 7(11), pp. 677-682, 17 March, 2013
61. Investigating Apoptotic Effects of Methanolic Extract of Dorema glabrum Seed on WEHI-164 Cells, Maryam Bannazadeh Amirkhiz, Nadereh Rashtchizadeh, Hossein Nazemiyeh, Jalal Abdolalizadeh, Leila Mohammadnejad, and Behzad Baradaran, ISRN Pharmacology, 2013, Article ID 949871, 9 pages

62. DNA Methylation Pattern as Important Epigenetic Criterion in Cancer, Mehrdad Ghavifekr Fakhr, Majid Farshdousti Hagh, Dariush Shanehbandi, and Behzad Baradaran, Genetics Research International, Volume 2013, Article ID 317569, 9 pages

63. Anti-phospholipase A2 receptor antibody in idiopathic membranous nephropathy: A report from Iranian population, Mohammad Reza Ardalan, Ali Ghafari, Fatemeh Hamzavi, Hamid Nasri, Behzad Baradaran, Jafar Majidi, Behrooz Nikbin, J Nephropathology. 2013; 2(4): 241-248

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70. Generation and Characterization of Anti-CD34 Monoclonal Antibodies that React with Hematopoietic Stem Cells, Leili Aghhebi Maleki, Jafar Majidi, Behzad Baradaran, Aliakbar Movassaghpour, Jalal Abdolalizadeh, CELL JOURNAL(Yakhteh), Vol 16, No 3, Autumn 2014
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74. Cloning and Expression of the Variable Regions of Anti-EGFR Monoclonal Antibody in E. coli for Production of a Single Chain Antibody, Farzaneh Jalalipour, Safar Farajnia, Fatemeh Mahmoudi, Behzad Baradaran, Davoud Farajzadeh, Leila Rahbarnia, Jafar Majidi, Iran J Biotech. 2014 June; 12(2): e17522

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Cell Line, Hamed Asadi, Mona Orangi, Dariush Shabehbandi, Zohreh Babaloo, Abbas Delazar, Leila Mohammadnejad, Fatemeh Zare Shahneh, Samira Valiyari, **Behzad Baradaran**, Adv Pharm Bull, 2014, 4(x), x-x

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B) CONFERENCES

Large Scale Production and characterization of Anti-human IgG Monoclonal Antibody in peritoneum of Balb/C Mice
Conference: first International Congress on Immunodiciency Disorders. 2005 Tehran-Iran

Production and characterization of Monoclonal Antibody against human IgG in Balb/C Mouse
Conference: The 7th congress of Immunology & Allergy. 2004 Mashhad-Iran

The Role of the Thymus in Myasthenia Gravis
Conference: The first seminar in Myasthenia Gravis, 2007 Tabriz-Iran

Production and Evaluation of monoclonal anti- hEGFR Effect on A431 Tumoral cells
Conference: The 9th congress of Immunology & Allergy. 2008 Tehran-Iran

Determination of IC50 of curcumin total extract in epithelial like cell line of breast cancer T47D
10th Iranian Congress of Biochemistry and the 3rd International Congress of Biochemistry and Molecular Biology

Production of Monoclonal Antibody against EGFR and Evaluation of Its Effect in Apoptosis Induction on Tumor Cell Lines
Conference: 5th International Breast Cancer Congress. 2010 Tehran-Iran

Production and purification of polyclonal antibody against human sperm
Conference: Fertility, Sterility and laparoscopy congress. 2008 Tabriz-Iran

Books
-2013  Comprehensive Immunology for Students in Persian Language
-2014  Comprehensive Immunology for Msc Students in Persian Language
-2015  Practical immunology for Medicine students in Persian Language
-2016  Common protocols in basic sciences in Persian Language

DISCOVERIES AND INVENTIONS

-2005  Monoclonal Antibody against Human IgG
Membership

- Iranian Society for Immunology and Allergy
- International Cell Death Society, ICDS

Teaching experience

2006 – Present  *Immunology*, Faculty of Medicine and Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran. (for medicine students, Ph.D Microbiology and Biotechnology students, MSc Immunology students, pharmacy and Dentist students and so on)

PROFESSIONAL EXPERIENCES

- Standard molecular biology techniques including: DNA and RNA extraction, PCR, Real Time PCR, gene Silencing by siRNA and shRNA, microRNA
- RT-PCR Cloning, Expression
- Immunological techniques: such as MTT, TUNEL, cytokine assay, western blotting, ELISA, production of monoclonal antibody, …
- Immunofluorescence and Flow cytometry.
- Biochemistry techniques: PAGE, SDS-PAGE, purification techniques including: affinity chromatography, Ion exchange, Gel filtration
- Microbiology techniques including: culture of bacteria
- Animal cell culture technology including Isolation and culture of primary cells, cell line culture, Passage, Transformation, Transfection,…
- Animal manipulation: Immunization, creating Tumor, Immunotherapy of Tumors

**THESIS SUPERVISION**

| Title                                                                 | Student                  | Supervisor       | Supervisor | Year | course   |
|---------------------------------------------------------------------|--------------------------|------------------|------------|------|----------|
| Evaluation of monoclonal antibody impact against EGFR (Epidermal Growth Factor Receptor) in prostate cancer PC3 cell line: downstream signaling pathways | Alireza Rezaemanesh      | √                | 2008       | MSc  | Immunology |
| Quantitative analysis of serum level and gene expression of interleukin-17 (A& F) in patients with multiple sclerosis | Farhad Babae             | √                | 2008       | MSc  | Immunology |
| Anti-tumor effect of Herb Medicine Ornithogalum Cuspidatum in inducing Apoptosis in WEHI-164 cancer cell line              | Mehrnosh Samavati        | √                | 2008       | MSc  | Immunology |
| Evaluation of Anti-tumor effect of Herb Medicine                      |                          |                  |            |      |          |
| Project Title                                                                                     | Researcher                       | Year | Degree | Field          |
|-------------------------------------------------------------------------------------------------|----------------------------------|------|--------|----------------|
| Ornithogalum Cuspidatum Methanol Fractions in inducing Apoptosis in WEHI164 cancer cell line   | Hamed Asadi                      | 2010 | Doctor | PG            |
| Isolation and Screening of anti-gastrin /CCKB Receptor scFv Antibody from Phage Antibody Library | Mohammad Reza Tohidkia           | 2010 | Ph.D   | Biotechnology |
| Isolation of anti-tumor necrosis factor-alpha single chain variable fragments antibody from phage antibody library | Jalal Abdolalizadeh              | 2010 | Ph.D   | Biochemistry   |
| Enhancing the efficiency of radiotherapy for breast cancer cells(SKBR3, T47D ) by a combined therapy method with chemotherapy (2DG/DOX ) | Fahimeh Aghae                    | 2011 | MSc    | Biophysics     |
| Cytotoxic effect of methanolic extract of medicinal plant Scrophularia Atropatana in induction of apoptosis in WEHI-164 and MCF-7 cancer cell lines | Elham Safarzadeh                 | 2012 | MSc    | Immunology     |
| Investigating apoptotic effects of alcoholic Extract of Dorema Glabrum Seed on Wehi-164 cell line | Maryam Banazadeh Amirkhiz        | 2011 | MSc    | Biochemistry   |
| Effect of Resveratrol and Prednisolon on Bax and Bcl-2 gene expression level and apoptosis in acute lymphoblastic leukemia cell lines CCRF-CEM and MOLT_4 | Taghi Khanzadeh                  | 2013 | MSc    | Hematology     |
| Comparison of different Purification methods of goat spermatogonial stem cells.                  | Minoo Gifani                     | 2012 | MSc    | Immunology     |
| In vitro evaluation of the effects of Polymers and preservatives on intestinal efflux pump       | Ramin Mohammadzadeh             | 2011 | Doctor | Pharm. D       |
| The effect of pharmaceutical excipients on the activity and expression of P-glycoprotein        | Darya Hodaie                     | 2011 | Doctor | Pharm. D       |
| The effect of the thymoquinone on A2A and A2B adenosine receptors gene expression in asthmatic guinea pigs induced by ovalbumin | Zahra Mirza Mohammadi           | 2012 | MSc    | Physiology     |
| The effect of simultaneous gene therapy with IL-12 & GM-CSF in the regression of tumor masses in mouse model | Saeideh Razi Sofiani             | 2012 | MSc    | Immunology     |
| Cloning and stable expression of human hematopoietic stem cell antigen (CD34) in mouse fibroblast cell line | Farzaneh Shafaghat              | 2010 | MSc    | Immunology     |
| Cloning and stable expression of human PECAM1(CD31) in mouse fibroblast cell line               | Hamed Salehi                    | 2010 | MSc    | Immunology     |
| The assessment of combination therapy of erythropoietin and melatonin on ischemia/reperfusion renal injury in animal model, male rat | Shokofeh Banae                  | 2012 | Ph.D   | Physiology     |
| Production and characterization of monoclonal antibody against CD34 marker in Balb/c mice         | Leili Aghebati                  | 2010 | MSc    | Immunology     |
| No. | Title                                                                 | Supervisor               | Year | Degree | Field       |
|-----|----------------------------------------------------------------------|--------------------------|------|--------|-------------|
| 20  | Production and characterization of monoclonal antibody against human IgA and comparison with Standard | Fatemeh Ezatifar         | 2010 | MSc    | Immunology  |
| 21  | HLA-G gene expression variation in women decidua with recurrent miscarriage and its relation with null-HLA-G | Nazila Alizadeh          | 2010 | MSc    | Immunology  |
| 22  | HLA-G gene expression pattern in placental tissue with recurrent miscarriage | Elnaz Mosaferi           | 2010 | MSc    | Immunology  |
| 23  | Study of apoptosis induction mechanism by medicinal plant Echinophora Platyloba extract against cancer cell line, WEHI-164 and L929 | Fatemeh Zare Shahneh     | 2012 | MSc    | Immunology  |
| 24  | Evaluation of Epigenetic changes in p53 gene in MCF-7 cell line treated with extract of medicinal plants Scrophularia amplexicaulis and Scrophularia oxysepala | Mehrdad Ghavifekr        | 2011 | MSc    | Immunology  |
| 25  | Production of Monoclonal Antibody against CD20 marker of B Lymphocytes and evaluation of specific binding to CD20 expressed cells | Koshan Sineh Sepehr      | 2010 | MSc    | Immunology  |
| 26  | Effects of viral infection model during pregnancy on onset and severity of multiple sclerosis disease in experimental autoimmune encephalomyelitis (EAE) model in offspring | Mohammad Hossein Dosti    | 2010 | MSc    | Immunology  |
| 27  | Study of radiotherapy effect in Apoptosis induction on the breast cancer cell line | Mona Fazel               | 2011 | MSc    | Biophysics  |
| 28  | Cloning and stable expression of B lymphocytes marker (CD19) in mouse NIH-3T3 cell line | Hajar Abbasi              | 2012 | MSc    | Immunology  |
| 29  | Suppression of MCL-1 and survivin genes expression by two small interference RNA (siRNA) and evaluation of their apoptotic induction effect in human acute myeloid leukemia cell line (HL-60) | Hadi Karami              | 2011 | Ph.D   | Molecular Medicine |
| 30  | Clinicopathological significance of telomerase activity in gastric lavage fluid at diagnosis of gastric cancer with real-time PCR | Vahid Jafarlou           | 2012 | Resident Surgery |
| 31  | Cytotoxic effects of extract of medicinal plants Scrophularia amplexicaulis and Scrophularia oxysepala in induction of apoptosis in WEHI-164 and MCF-7 cancer cell lines | Samira Valiyari          | 2011 | MSc    | Immunology  |
| 32  | Study of interleukin-17A gene polymorphism and serum levels of IL-17 and IL-27 in patients with Multiple Sclerosis (MS) in comparison with control group | Reza Yeganeh             | 2010 | MSc    | Immunology  |
| 33  | Evaluation of immune responses of RAZI leptosiral vaccine in hamster model | Reza Banihashemi         | 2011 | MSc    | Immunology  |
| 34  | Tumor necrosis factor α gene polymorphisms and recurrent pregnancy loss | Zeinab Paknejad          | 2011 | MSc    | Genetic     |
| 35  | Investigacion of IL-1 receptor antagonist gene and Interleukin 1B polymorphisms in women with recurrent miscarriage | Masomeh Mohammad Khanlou | 2011 | MSc    | Genetic     |
| No. | Title                                                                                                           | Author(s)                        | Year | Degree | Field              |
|-----|----------------------------------------------------------------------------------------------------------------|----------------------------------|------|--------|--------------------|
| 36  | Assessing the cytotoxic and apoptotic effect of methanol fractions of medicinal plant Scrophularia oxysepala on WEHI-164 and MCF-7 cancer cell lines | Mona Orangi                      | 2013 | MSc    | Immunology         |
| 37  | Cytotoxic and apoptotic effects of medicinal plant extracts, Dichloromethane fractions (scrophularia oxysephala) in the cancer cells MCF-7 and WEHI-164 | Behnaz Hosseini                  | 2013 | MSc    | Immunology         |
| 38  | Suppression of ABCB1 genes expression by small interference RNA (siRNA) and evaluation of drug resistance in Etoposide resistant human acute myeloid leukemia cell line (HL-60) | Sacid Kechlaki                   | 2013 | MSc    | Immunology         |
| 39  | Studying the combined effect of radio-gene therapy by siRNA technique on increasing apoptotic death in esophagus SCC cancer cells | Mohsen Mohammadi                 | 2012 | MSc    | Radiobiology       |
| 40  | Enhancing The Efficiency Of Radiotherapy For Breast Cancer Cells (SKBr3 & MCF7) by a Combined Therapy Method With Chemotherapy (2DG/MLN4924) | Maryam Ghaffari                  | 2012 | MSc    | Radiobiology       |
| 41  | Construction a chimeric M2e –HA2 fused antigen of Influenza A virus for expressing in Escherichia coli          | Ali Ameghi                       | 2011 | Ph.D   | Biotechnology      |
| 42  | Suppression of MCL-1 and Survivin Genes Expression through two siRNA and Evaluation of their Apoptotic Effect in U937 cell line | Mehdi Jafarlou                   | 2011 | Ph.D   | Molecular Medicine |
| 43  | Suppression of MDR1 (ABCB1) genes expression by small interference RNA (siRNA) and evaluation of drug resistance in oxaliplatin resistant human colon cancer cell line (SW 480) | Nooshin Montazami               | 2013 | MSc    | Immunology         |
| 44  | The survey of nanocurcumin effects on macrophages role on breast tumor progress in a tipycal animal model, and the determination of upstream and downstream pathways | Sadaf Shiri                      | 2013 | MSc    | Immunology         |
| 45  | Suppression of HMGA2 gene expression by a small interference RNA (siRNA) and evaluation of their apoptotic induction effect and cell cycle inhibition and invasiveness inhibition in human breast adenocarcinoma cell line (MDA-MB-468) | Behzad Mansourir                | 2013 | MSc    | Immunology         |
| 46  | Study of TLR 2, TLR 4 and Myd 88 gene expression in peripheral blood monocytes of patients with vitiligo       | Akbar Mohammad Hosseini          | 2011 | MSc    | Immunology         |
| 47  | Evaluation of cytotoxic activities of Iranian orthodox black tea extract (BTE) on oral squamous cell carcinoma (KB cell line) | Faranak Moradi                  | 2012 | Resident | Pathology         |
| 48  | Apoptosis induction and cell viability effects of hydroalcoholic grape seed extraction on squamous cell carcinoma KB cell line | Nader Kalbasi                   | 2012 | Resident | Pathology         |
| 49  | Comparison of gene expression profile of cytokines secreted by peripheral blood mononuclear cells in co-culture with placental and umbilical cord blood | Parisa Lotfinejad               | 2013 | MSc    | Immunology         |
| Derived Mesenchymal Stem Cells | Nasrin Sohrabi | √ | 2013 | MSc | Genetic |
|-------------------------------|----------------|---|------|-----|--------|
| Inhibition of HMG A2 gene expression by siRNA in HCT116 cell lines in colorectal cancer | Sahar Esmaeizadeh | √ | 2013 | MSc | Immunology |
| Simultaneously suppression of HMG A2 and BACH1 genes expression by a small interference RNA (siRNA) and evaluation of their apoptotic induction effect and cell cycle inhibition in human breast adenocarcinoma cell line (MDA-MB-468) | Mansour Aletaha | √ | 2013 | Ph.D | Biotechnology |
| Association between HLA class II DQ<sub>2</sub> – DR<sub>3</sub> haplotype and type 1 Diabetes Mellitus in children | Fatemeh Zeinali | √ | 2013 | MSc | Genetic |
| Suppression of SNAIL 1 gene expression by a small interference RNA (siRNA) and evaluation of their effect on metastatic cells in esophageal cancer | Maryam Hematizadeh | √ | 2014 | MSc | Immunology |
| Suppression of SNAIL gene expression by a specific small interference RNA (siRNA) and valuation of their inhibition effect on metastatic bladder cancer cell line. | Shima Salehizadeh | √ | 2014 | MSc | Immunology |
| Suppression of BACH1 gene expression by a specific small interference RNA (siRNA) in Prostate tumoral model. | Neda Shajari | √ | 2014 | MSc | Immunology |
| Suppression of BACH1 gene expression by a specific small interference RNA (siRNA) in Colon tumoral model. | Sadaf Davodian | √ | 2014 | MSc | Immunology |
| Suppression of PTPN22 gene expression by a specific small interference RNA (siRNA) in T Tumoral lymphocytes (Jurkat) and the effect on Apoptosis signaling Pathways | Elham Baghbani | √ | 2014 | MSc | Immunology |
| Effect of specific siRNA against HMG A2 gene in PC-3 cell line Prostate cancer | Shima Khajoei | √ | 2014 | MSc | Genetic |
| Therapeutic effects of DJ-1 Plasmid Vector for Cardiovascular Ischemic Injury Gene Therapy. | Shahroz Ghaderi | √ | 2014 | Ph.D | Molecular Medicine |
| MiR-143 replacement effect on growth and metastasis inhibition in gastric cancer cell lines | Nayer Hossein Ahli | √ | 2015 | MSc | Immunology |
| miR-143 replacement effect on growth and metastasis inhibition in colorectal cancer cell lines | Leila Karimi | √ | 2015 | MSc | Immunology |
| miR-145 Replacement effect on growth and metastasis in Gastric cancer cell line | Tahereh Zeinali | √ | 2015 | MSc | Immunology |
| MiR-143 replacement effect on growth and metastasis inhibition in breast cancer cell lines | Fatemeh Tavanafar | √ | 2015 | MSc | Genetic |
| Mir-330 Replacement therapy of breast cancer and its inhibitory role in growth and migration of Mcf7 cell line | Elham hosseinzadeh | √ | 2015 | MSc | Genetic |
| No. | Title                                                                 | Name                  | Year | Degree  | Field       |
|-----|-----------------------------------------------------------------------|-----------------------|------|---------|-------------|
| 66  | MiR-145 replacement effect on growth and migration inhibition in lung cancer cell line | Navaz Sadeghieh       | 2015 | MSc     | Genetic     |
| 67  | Suppression of HMGA2 gene expression by a small interference RNA (siRNA) and evaluation of its metastatic effect on lung carcinoma cell line (A549). | Sanaz Naghizadeh      | 2015 | MSc     | Genetic     |
| 68  | miR-330, Melanoma Cancer, Migration, microRNA Replacement Therapy, Apoptosis | Naser Sehati          | 2015 | MSc     | Biotechnology |
| 69  | MiR-143 replacement effect on growth and migration inhibition in prostate cancer cell lines | Elshan bajan          | 2015 | MSc     | Genetic     |
| 70  | Investigation of the gene silencing STAT3 effect and use of agonist TLR7 / TLR8 in the immunomodulatory activity of myeloid-derived suppressor cells in patients with breast cancer | Elham safarzadeh      | 2015 | Ph.D    | Immunology  |
| 71  | Assessment of inhibition ERAP1 in free heavy chain expression in peripheral blood mononuclear cell-derived macrophages in spondylitis ankylosing patients and its effects in NK cells responses | Farhad Babaie          | 2015 | Ph.D    | Immunology  |
| 72  | Assessment of inhibition ERAP1 in free heavy chain expression in peripheral blood mononuclear cell-derived macrophages in spondylitis ankylosing patients and its affects in T CD8+ cells responses | Hamed Mohammadi        | 2015 | Ph.D    | Immunology  |

**EMPLOYMENT HISTORY**

2001- Present Tabriz University of Medical Sciences, Medicine Faculty, Immunology Department, Tabriz, Iran

**Occupation/Position**

Academic and Research member