

Ali-Akbar Zare

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A. Personal Data:

Language: Persian, English

Work address: Recombinant Proteins Department, Breast Cancer Research Center,
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B. Education:

* Medical Biotechnology (M. Sc.)

Qazvin University of Medical Science.

Qazvin / Iran

Thesis Title: Comparison of expression of TTK, ARMC3 and TPTE, in breast cancer and normal tissue samples.

* Medical Technology (Laboratory Science) (B.Sc.)

Kerman University of Medical Science.

Kerman / Iran

C. Affiliation:

Recombinant Proteins Department, Breast Cancer Research Center, Motamed Cancer Institute (MCI), ACECR, Tehran, Iran, 146, South Gandhi Ave, Vanak Sq, Tehran, Iran

D. List of Scientific Publications:

D. I. Published articles:

1- Mehrdad Asghari Estiar, Ali-Akbar Zare, Rezvan Esmaeili, Leila Farahmand, Hassan Fazilaty, Davood Jafari, Tannaz Samadi, and Keivan Majidzadeh-A. Clinical significance of NDRG3 in patients with breast cancer. *Future Oncology*, 2017;Vol. 0, No.0 .(doi: 10.2217/fo-2016-0457 (

2- Estiar MA, Esmaeili R, Zare AA, Farahmand L, Fazilaty H, Zekri A, Jafarbeik-Iravani N, Majidzadeh-A K. High expression of CEACAM19, a new member of carcinoembryonic antigen gene family, in patients with breast cancer. *Clin Exp Med*. 2016 Dec 1. [Epub ahead of print]

3- Rahmanian M, Naghib M, Seyfoori A, Zare AA, Sanati H, Majidzadeh-A K. Inhibitory Effect of Tricalcium Phosphate Sintered at Different Temperatures on Human Breast Cancer Cell Line MCF-7. *Multidisciplinary Cancer Investigation*. January 2017, Volume 1, Issue 1.

4- Rahmanian M, Naghib M, Seyfoori A, Zare AA, Majidzadeh-A K. Investigation of Inhibitory Effect of β -tricalcium Phosphate on MCF-7 Proliferation. *Iranian Journal of Breast Disease*. 2016; 9 (1):7-13. <http://www.ijbd.ir/article-1-503-fa.html>

5- Majidzadeh-A K, Farahmand L, Zare AA, Esmaeili R, Salehi M, Habibi M. Iranian women's attitude toward prophylactic mastectomy for breast cancer. *J Cancer Res Ther*. 2016 Apr-Jun;12(2):915-9. doi: 10.4103/0973-1482.171363.

6- Zare AA., K. Majidzadeh-A, R. Esmaeili, N. Gheibi and M. R. Sarookhani. "Expression Analysis of ARMC3, a Testis-Specific Gene, in Breast Cancer Patients." *Biotech Health Sci*, 2016,3(2): e34453

7- Majidzadeh-A K, Kaviani A, Esmaeili R, Farahmand L, Shojamoradi MH, Zare AA, et

al. Iranian Breast Cancer Bio-Bank: the activity and challenging issues. *Cell Tissue Bank*. 2013 Mar;14(1):11-20. doi: 10.1007/s10561-012-9293-5. Epub 2012 Feb 9.

8- Alavian SM, Izadi M, Zare AA, Lankarani MM, Assari S, Vardi MM. Survey of the level of anti-HBs antibody titer in vaccinated Iranian general dentists. *Spec Care Dentist*. 2008 Nov-Dec;28(6):265-70. doi: 10.1111/j.1754-4505.2008.00052.x.

9- Esmaili R, kaviani A, Foroughizadeh M, abdoli N, lashgari M, Zare AA, Majidzadeh-A K. Comparison of Real-Time PCR and immunohistochemistry for HER-2/neu gene amplification assay in breast cancer tissue. *Ann Mil Health Sci Res*. 2013; 11 (3) :204-210

D. II. Published abstracts in congresses:

- 1- Neda Jalili , Leila Farahmand , Keivan Majidzadeh-A , Ali-Akbar Zare , Parnaz Merikhian ,Tannaz Samadi. Cross-talk between MUC1 and epidermal growth factor receptor-2(EGFR- 2) in breast cancer cells. 18th-20th May 2016. Razavi hospital-Mashhad, Iran
- 2- Ali-Akbar zare , Keivan Majidzadeh-A , Rezvan Esmaeili , Leila Farahmand , Reyhane Ghadirian. Cancer-testis Antigens and Breast Cancer Immunotherapy. 18th-20th May 2016. Razavi hospital-Mashhad, Iran
- 3- Zare A-A, Sarookhani M-R, Esmaeili R, Farahmand L, Majidzadeh K. TPTE expression in breast cancer. 1st International & 8th Annual Tehran Breast Cancer Congress. 28th - 30th October 2015
- 4- Zare AA, Esmaili R, Farahmand L, L Sarookhani MR, Majidzadeh- A K. Cancer-Testis Gene ARMC3 expression in breast cancer. 7th Breast cancer Congress. October 22-24, 2014 – Tehran(Presentation)
- 5-Eini L, Sadroddiny E, Omidfar K, Sohrabihaghdost I, Naghash N, Zare AA. Induced Expression of Indoleamine 2,3-dioxygenase in Endometrial Mesenchymal Stem Cells . . 13th Congress on Reproductive Biomedicine and 8th Congress on Stem Cell Biology & Technology. September 5-7, 2012 – Tehran
- 6- Eini L, Zare AA, Moghadam H, Gheisari Y, Azadmanesh K, Farahmand L. Mesenchymal stem cells and homing concerning breast tumor. 13th Congress on Reproductive Biomedicine and 8th Congress on Stem Cell Biology & Technology .September 5-7, 2012 – Tehran

- 7- Esmaeili R; Majidzadeh-A K; Olfatbakhsh A; Eini L; Zare AA. Tumor safe margin ambiguity: different expression of CCND1 in normal adjacent and normal tissues in breast cancer. The 1st Annual Meeting of the Middle-Eastern Association for Cancer Research (MEACR) Tanta University. December 27-28, 2011
- 8- Shamspour N, tajik A, Shahbazi N, Amorvand M, Zare AA. Survey of the prevalence of high blood triglyceride levels in renal patients 84-83 years admitted to hospital Hashemi Nejad martyr. 5th Congress of laboratories Quality Improvement.2006
- 9- Shamspour N, Raminkho A, tajik A, Zare AA. Evaluation of changes in prostate-specific antigen (PSA) after cystoscopy in a number of patients referring to Chamran Hospital Urology Clinic in 2004-2005.. 5th Congress of laboratories Quality Improvement.2006

E. Participation in congress and symposiums:

1. The first international razavi cancer congress. Razavi Hospital, Mashhad, Iran. May 18–20, 2016
2. 12th Congress on Stem Cell Biology and Technology. Royan Institute. September 2016, Tehran, Iran.
3. 1th international and 8th Breast Cancer Congress – Breast cancer research center. 2015, Tehran, Iran.
4. 11th Congress on Stem Cell Biology and Technology. Royan Institute. September 2015, Tehran, Iran.
5. 7th Breast Cancer Congress – Breast cancer research center. Tehran, Imam Imam Khomeini hospital. 2014, Tehran, Iran.
6. 6th Breast Cancer Congress – Breast cancer research center. Tehran, Imam Imam Khomeini hospital. 2013, Tehran, Iran.
7. 5th Tehran Breast Cancer Congress – Breast cancer research center. Tehran Milad Tower. December 2012, Tehran, Iran.
8. 13th Congress on Reproductive Biomedicine and 8th Congress on Stem Cell Biology & Technology. Royan Institute. Razi Conference Center. September 2012, Tehran, Iran.
9. 1st symposium on "Molecular aspects of breast cancer". Breast Cancer Research Center (BCRC); Academic Center for Education, Culture and Research (ACECR), Imam Khomeini hospital, 2009, Tehran, Iran.

10. 1st International congress on 'health genomics and biotechnology'. Pasteur institute of Iran. Summit meeting conference hall, 2007, Tehran, Iran.
11. 4st Iranian congress of 'genetic disorders and disabilities'. Pasteur institute of Iran. Summit meeting conference hall, 2007, Tehran, Iran.

F. Research Projects

1. Comparison of expression of TTK (ARMC3 and TPTE, in breast cancer and normal tissue samples.
2. Comparison of expression of TEMFF, IMP, in breast cancer and normal tissue samples.
3. Mesenchymal stem cells and homing concerning breast tumor. Cancer Genetic Research Group; Breast Cancer Research Center, 2012. (as research assistant)
4. Induced Expression of Indoleamine 2, 3-dioxygenase in Endometrial Mesenchymal Stem Cells. Tehran university & Science and Research branch, Islamic Azad university 2012. (as research assistant)
5. Assessment of the sensitivity of patients and normal individuals to Adriamycin using G2-chromosome aberration assays
6. Establishment of Iranian breast cancer bio-bank. Cancer Genetic Research Group; Breast Cancer Research Center. 2008-2012. (as research assistant)
7. Survey of the level of anti-HBs antibody titer in vaccinated Iranian general dentists. Clinical Research Unit, Baqiyatallah University of Medical Sciences 2008(as research assistant).
8. Survey of the prevalence of high blood triglyceride levels in renal patients - hospital Hashemi Nejad martyr.2006 (as research assistant)
9. Evaluation of changes in prostate-specific antigen (PSA) after cystoscopy - Chamran Hospital Urology Clinic. 2004-2005 (as research assistant)

G. Patents:

1. Design and production of F(ab)₂ antibody against human epidermal growth factor (HER-2) in the cytoplasm of bacterial host, 2012, Registered 80979
2. Automatic liquid cultures of microorganisms, 2012, Registered 80055

H. Experiences:

H. I. Lab. Technical skills

- ✚ Molecular biology techniques: DNA & RNA extraction and purification, DNA gel Electrophoresis, PCR techniques, Molecular cloning, Subcloning
- ✚ PAGE ,SDS-PAGE
- ✚ Southern blotting
- ✚ ELISA technique
- ✚ Fermentation process(Bioreactor), expression optimization,
- ✚ Cytogenetic techniques: Chromosome aberration, Micronuclei,
- ✚ FISH techniques

H. II. Computer skills

- ✚ Bioinformatics tools: DNA and Protein sequence Databases, Primer design, BLAST,
- ✚ Search & advanced search,
- ✚ Bibliometrics & scientometrics ,
- ✚ PowerPoint, Word, Excel, (ICDL),
- ✚ EndNote.

H. III. Teaching

- ✚ Scientific writing for Medical students of Tehran University of Medical Science,2010
- ✚ Search & advanced search for Medical students of Tehran University of Medical Science,2010

I. Workshop:



1. Seminar and Workshop "Introduction to Nanotechnology " - Islamic Azad University, South Tehran Branch, 2013.
2. Proposal writing workshop. Young Researchers club. Science and Research Branch, Islamic Azad University,Tehran, Iran, 2011
3. Data base and search in electronically data base. Young Researchers club. Science and Research Branch, Islamic Azad University,Tehran, Iran, 2011

4. SPSS workshop, Young Researchers club. Science and Research Branch, Islamic Azad University, Tehran, Iran, 2011
5. Biosafety workshop. Pasteur Institute of Iran, Tehran, Iran, Feb, 2008.
6. Biotechnology workshop. The safe exploitation of biotechnology, Iranian Biotechnology society. Pasteur Institute of Iran, Tehran, Iran, 23 April, 2008.
7. EndNote workshop, held by Iranian Molecular Medicine Network and Shiraz Institute for cancer research, Pasteur Institute of Iran, Tehran, Iran, Mar, 2008
8. Bioinformatics workshop, held by Iranian Molecular Medicine Network, Pasteur Institute of Iran, Tehran, Iran, Mar, 2008
9. "Business skills and entrepreneurship" - Office of Labor and Social Affairs of Hamedan province- 2009.
10. Workshop on "End note and reference manager " - Pasteur Institute of Iran, March 2008
11. Scientific Reading workshop. The intermediate and advanced level. Cellular and Molecular Research center, Baqiyatallah University of Medical Sciences, Tehran, Iran, 2007.
12. Scientific writing workshop. The intermediate and advanced level. Cellular and Molecular Research center, Baqiyatallah University of Medical Sciences, Tehran, Iran, 2007.

J. Awards:

1. Selected as one of the nation's top student. Ministry of Health and Medical Education.
2. Selected as the top student of Kerman University of Medical Science.
3. Ranked one in B. Sc. course, Kerman University of Medical Science.
4. Selected members of the Young Researchers Club.
5. Selected members of the Student Researchers Club.

K. Membership in scientific organizations:

-  Young researcher club since 2010.
-  Student Researchers Club since 2012.

L. Field of research interests:

My research interest is on different aspects of Biotechnology and Molecular biology; cloning and expression of recombinant products, Gene cloning, purification, characterization, in silico design and engineering, Production of commercial enzymes and construction of molecular diagnostic kits, Molecular aspects of cancer.

M. Other activities:

- ✚. The Executive Secretary of the Workshop on Real-Time PCR - Breast Cancer Research center, 2012.
- ✚. Chief executive in holding the "First Congress of Medicine and the sea", Bushehr University of Medical Sciences, 2001.
- ✚. Executive director of the Student Section in Seminar "A review on medical diagnostic laboratories". Bushehr University of Medical Sciences, 2001.
- ✚. Editorial board of the student magazine in the first seminar "Food and Nutrition Conference". Bushehr University of Medical Sciences, 2001.