

Curriculum Vitae

First Name: Rezvan **Last Name:** Esmaeili

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Education

PhD, Molecular Genetics, Tarbiat Modares University, Tehran, Iran (2010-2015)

MSc, Cellular and Molecular Biology, Khatam University, Tehran, Iran (2005-2008)

BSc, Cellular and Molecular Biology, Tehran University, Tehran, Iran (1999-2003)

Professional Experience

✓ Breast Cancer Research Center, Motamed Cancer Institute, Academic center for research, culture and education (ACECR) – 2007 to present as follows:

- 2016- present Head of genetics group
- 2015-2016 Head of recombinant protein group
- 2013-2015 scientific staff(faculty)
- 2008-2013 research assistant and lab manager
- 2007-2008 research assistant

✓ 2003-2007 research assistant, Pasteur Institute of Iran

Honors and Awards

2016 outstanding researcher in Motamed Cancer Institute, Tehran, Iran

2014 Health education Award, UNESCO chair in health education (Tehran university of medical science)

2013 outstanding researcher in Academic center for research, culture and education (ACECR), Tehran, Iran

2010 Receive fellowship grant, European breast cancer congress, EBCC7, Barcelona, Spain

2010 First place in PhD entrance exam. Tarbiat Modares University, Tehran, Iran

2009 Appreciation for promoting the research activities of ACECR

2006 Best poster presentation in 4th biotechnology congress. Kerman, Iran.

Peer-Reviewed Publications

1. E Nazeri, MG Savadkoohi, K Majidzadeh-A, R Esmaeili*. Chondrosarcoma: An Overview of Clinical Behavior, Molecular Mechanisms Mediated Drug Resistance and Potential Therapeutic Targets. Critical Reviews in Oncology/Hematology. 2018

2. [R Esmaeili](#), N Abdoli, F Yadegari, M Neishaboury, et al. Unique CD44 intronic SNP is associated with tumor grade in breast cancer: a case control study and in silico analysis *Cancer cell international* 18 (1), 28
3. E Kalantari, SM Naghib, MR Naimi-Jamal, [R Esmaeili](#), K Majidzadeh-A, Nanostructured monticellite: An emerging player in tissue engineering. *Materials Today: Proceedings* 5 (7), 15744-15753
4. Adileh Ayati, Tayebeh Oghabi Bakhshaiesh, Setareh Moghimi, [Rezvan Esmaeili](#), et al, Synthesis and biological evaluation of new coumarins bearing 2, 4-diaminothiazole-5-carbonyl moiety. *European journal of medicinal chemistry*. 2018,
5. Leila Farahmand, [Rezvan Esmaeili](#), Leila Eini, Keivan Majidzadeh-A. The effect of mesenchymal stem cell-conditioned medium on proliferation and apoptosis of breast cancer cell line. *Journal of cancer research and therapeutics*. 2018,14,2: 341-345
6. A Ayati, [R Esmaeili](#), S Moghimi, TO Bakhshaiesh, Z Eslami-S, etal. Synthesis and biological evaluation of 4-amino-5-cinnamoylthiazoles as chalcone-like anticancer agents. *European journal of medicinal chemistry*. 2018 145, 404-412
7. Rahil Eftekhari, [Rezvan Esmaeili](#), Reza Mirzaei, Katayoon Bidad, Stacy de Lima, Maryam Ajami, Hedayatollah Shirzad, Jamshid Hadjati and Keivan Majidzadeh-A. Study of the tumor microenvironment during breast cancer progression. *Cancer Cell International* 2017**17**:123
8. Sina Halvaei, Shiva Daryani, Zahra Eslami-S, Tannaz Samadi, Narges Jafarbeik-Iravani, Tayebeh Oghabi Bakhshayesh, Keivan Majidzadeh-A, [Rezvan Esmaeili*](#). Exosomes in cancer liquid biopsy: a focus on breast cancer. *Molecular therapy nucleic acids*. 2017 Dec 1
9. Tayebeh Oghabi Bakhshaiesh, Keivan Majidzadeh-A ,[Rezvan Esmaeili*](#), Wip1: A candidate phosphatase for cancer diagnosis and treatment, *DNA Repair*, Volume 54, June 2017, Pages 63–66
10. [Rezvan Esmaeili](#), Tannaz Samadi, Nasrin Abdoli, Keivan Majidzadeh-Ardebili, Leila Farahmand, Malihe Salehi. The A-kinase anchoring proteins correlation with disease free survival in breast cancer. (in Persian) *Tehran Univ Med J* 2017, 74(10): 688-696
11. [Esmaeili R](#), A Sadeghpour, A Darbandi-Azar, K Majidzadeh-A, A Vajhi Echocardiographic assessment of myocardial infarction: comparison of a rat model in two strains, *Iranian Journal of Veterinary Research* 2017, 18 (1), 30
12. Estiar MA, Zare AA, [Esmaeili R](#), Farahmand L, Fazilaty H, Jafari D, Samadi T, Majidzadeh-A K, Clinical significance of NDRG3 in patients with breast cancer. *Future Oncol*. 2017 May;13(11):961-969
13. Keivan Majidzadeh-A1, Leila Farahm, Ali-Akbar Zare, [Rezvan Esmaeili](#), Malihe Salehi, Masoud Habibi. Iranian women's attitude toward prophylactic mastectomy for breast cancer. *Journal of Cancer Research and Therapeutics*. j of BMC Cancer (2016)
14. MA Estiar, [R Esmaeili](#), AA Zare, L Farahmand, H Fazilaty, A ZekriHigh expression of CEACAM19, a new member of carcinoembryonic antigen gene family, in patients with breast cancer.j. *Clin Exp Med* (2016).
15. AA Zare, K Majidzadeh-A, [R Esmaeili](#), N Gheibi, MR SarookhaniExpression Analysis of ARMC3, a Testis-Specific Gene, in Breast Cancer Patients. *Journal of Biotechnology and Health Sciences*. 3(2): e34453(2016)
16. [Rezvan Esmaeili](#), Keivan Majidzadeh-A,Leila Farahmand, Maryam Ghasemi, Malihe Salehi and Ali Reza Khoshdel . AKAP3 correlates with triple negative status and disease free survival in breast cancer. *j of BMC Cancer* .681;12:15. (2015)

17. S.Yousef Amoli, L.Kokabee, K.Majidzade-A, A.R.Kordafshari ,H.Rahimi, [R.Esmaeili](#), P.Izadi, M.Noruzinia, F.Maryami, M.Karimipour, Cancer Testes Antigen Expression in Breast Cancer Tissues and Cell Lines. Journal of Adv. Biores.6 (1) .(2015)
18. [Esmaeili R](#), K Majidzadeh-A, L Farahmand, M Ghasemi. Absence of and (Cancer/Testis Antigens) PIWIL PL 2 2L60 Expression in Breast Cancer Tissue. Journal of Archives of Breast Cancer.1 (3) .2014
19. Majidzadeh- K, Kaviani A, [Esmaeili R](#), Farahmand L, Shojamoradi MH, Zare AA, Eini L,Abbasvandi F, Olfatbakhsh A .Iranian Breast Cancer Bio-Bank: the activity and challenging issues., Journal of Cell Tissue Bank. 2013 Feb 9.
20. Leila Farahmand, Keivan Majidzadeh, Zargham Sephehrizadeh , Mohammad Reza Mofid , [Rezvan Esmaeili](#) , Mojtaba Tabatabaei Yazdi , Ligation Independent Cloning of polycistronic, genetically modified, HuMAb4D5-8 F (ab')₂, in bacterial plasmid, Avicenna Journal of Medical Biotechnology,2012
21. Motamedi Sahar; Majidzadeh Keivan; Mazaheri Mahta; Anbiaie Robab; Mortazavizadeh Seyed Mohammad Reza; [Esmaeili Rezvan](#); Tamoxifen Resistance and CYP2D6 Copy Numbers in Breast Cancer Patients. Asian Pacific Journal of Cancer Prevention. 13(12) (2012).
22. Majidzadeh-A K, [Esmaeili R](#), Abdoli N. TFRC and ACTB as the best reference genes to quantify Urokinase Plasminogen Activator in breast cancer. Journal of BMC Res Notes. 2011 Jun 25; 4:215.
23. [Rezvan Esmaeili](#), Seyedmoayed Alvian, Bashir Hajibeigi, Elham sabouri, Rosita Edalat, Ahmad Adeli, Fereidoun Mahboudi, Phylogenetic Analysis of Twenty – Six Cases of Hepatitis Delta Virus Isolates in Tehran,Iran. Journal of HepatitisMonthly. 9(3).(2009) .
24. . Momeny M, Khorramizadeh MR, Ghaffari SH, Yousefi M, Yekaninejad MS, [Esmaeili R](#) Effects of silibinin on cell growth and invasive properties of a human hepatocellular carcinoma cell line, HepG-2, through inhibition of extra cellular signal-regulated kinase 1/2 phosphorylation. Momeny M, Khorramizadeh MR, Ghaffari SH, Yousefi M, Yekaninejad MS., Eur J Pharmacol. 2008 Sep 4;591(1-3):13-20
25. Sarrami-Forooshani, Das SR, Sabahi F, Adeli A, [Esmaeili R](#), Wahren B, Mohraz M, Haji- R Abdolbaghi M, Rasoolinejad M, Jameel S, Mahboudi F Molecular analysis and phylogenetic characterization of HIV in Iran. J Med Virol. 2006; 78(7):853-63

Submitted manuscripts

- 1- Expression of SCUBE2 and BCL2 predicts favorable response in ER α positive breast cancer (first author)
- 2- Mesenchymal stem cells Pretreatment with stromal-derived factor-1 alpha augment cardiac function and angiogenesis in infarcted myocardium (first author)
- 3- Microbiome and Breast Cancer; New Role for an Ancient Population (corresponding author)
- 4- Circular RNA; a New Biomarker for Breast Cancer: A Systematic Review (corresponding author)

Conference Proceedings, Presentations, and Posters

1. Zare A K, Majidzadeh-A K, [Esmaeili R](#), Farahmand L, Ghadirian R, Cancer-Testis Antigens and Breast Cancer Immunotherapy, The first international razavi cancer Congress.2016

2. Farahmand L, Majidzadeh -A K, Salehi M, [Esmaeili R](#), Targeted delivery of cardiac peptides as anti – cancer agents.13 the CIMT Annual Meeting Abstracts. MAY 11-13 2015
3. Majidzadeh -A K, Farahmand L, [Esmaeili R](#), Salehi M, Sanati H. Production of anti – cancer Bi-functional nanobody in bacterial host .13 th CIMT Annual Meeting Abstracts.MAY 11-13 2015.
4. Zare A, Sarookhani M ,[Esmaeili R](#), Farahmand L, Majidzadeh K.TPTE Expression in Breast Cancer. 8th Breast Cancer Congress 2015.
5. Salehi M, Majidzadeh K, Farahmand L, [Esmaeili R](#). Design and Construction a bi-specific Antibody for Targeting Cancer Stem Cells and Tumor Cells. 8th Breast Cancer Congress 2015.
6. [Esmaeili R](#), Majidzadeh -A K, Farahmand L, Mazaheri M, Abdoli N, Jafarbeik Iravani N, The correlation between IGFR2 and SCUB expression and clinic-pathologic characteristics in the breast cancer. 7th Breast Cancer Congress, 2014
7. Zare AA, [Esmaili R](#), Majidzadeh-A K, Farahmand L, Sarookhani MR, Cancer-Testis Gene ARMC3 expression in breast cancer, 7th Breast Cancer Congress, 2014
8. Zahedi M, Farahmand L, Majidzadeh -A K, [Esmaeili R](#), Designing of Bacterial Construct for Targeted Delivery of Anti-Cancer Agents, 7th Breast Cancer Congress, 2014
9. Dabiri Z, Majidzadeh-A K, Farahmand L, [Esmaeili R](#), Cloning and expression of nanobody in bacterial host, 7th Breast Cancer Congress, 2014
10. Abdoli N, Kaviani A, [Esmaili R](#), Neishaboury MR, Majidzadeh-A K, Single nucleotide polymorphism in CD44 intron1 in Iranian patients with breast cancer, 7th Breast Cancer Congress, 2014
11. Eini, L, Majidzadeh-A K, [Esmaeili, R](#); Farahmand L, The Effect of Conditioned Media of Mesenchymal Stem Cells on Proliferation and apoptosis of Breast Cancer Cell Line, The European Cancer Congress 2013
12. [Esmaeili R](#), Keivan Majidzadeh-A, Nasrin Abdoli, Asieh Olfatbakhsh, Samaneh Mohammadi . Different expression of Cyclin D1 in normal tissues and normal adjacent in breast cancer. 8th European Breast Cancer Conference (EBCC8), 24-27 March 2012, Vienna, Austria
13. Majidzadeh-A K, [Esmaeili R](#), Mazaheri M, Mortazavi-Zadeh MR, Sahar Motamedi, Cytochrome p450 2D6 gene copy number as an indicator for Tamoxifen resistance in Breast Cancer. 8th European Breast Cancer Conference (EBCC8), 24-27 March 2012, Vienna, Austria
14. H Moghadam, L Eini, [R Esmaeili](#), L Farahmand, K Majidzadeh-A, The effect of conditioned media of mesenchymal stem cells on proliferation of MCF-7, 5th Tehran Breast Cancer Conference, Iranian Journal of Breast Diseases, Page 79, December 2012
15. Ghasemi M, [Esmaili R](#), Abdoli N, Farahmand L, Majidzadeh-A K, Expression analysis of AKAP3gene (Cancer-Testis Genes) in invasive ductal carcinoma with normal breast` tissue. 5 th Tehran Breast Cancer Conference, Iranian Journal of Breast Diseases, Page 81, December 2012

16. Yousef amoli S, Kokabee L, Majidzadeh-A K, [Esmaeili R](#), Karimipoor M, The Evaluation of Expression of Multiple Cancer/test Genes in Breast Cancer, 4th Tehran Breast Cancer Conference, Iranian Journal of Breast Diseases, Page 164, November 2011
17. [Esmaeili R](#), Majidzadeh-A K, Abdoli N, Habibi M, Bahrami AR, Reference gene selection to quantify urokinase plasminogen activator (uPA) in Breast Cancer 7th European Breast Cancer Conference (EBCC7), 24-27 March 2010, Barcelona, Spain.
18. [Esmaeili R](#), Majidzadeh-A K, Abdoli N, "Proper quantification of uPA in breast cancer: Housekeeping selection". Iranian Journal of Breast Disease. 2010; 3 (3 and 4) :7-15
19. Farahmand L, Majidzadeh-A K, [Esmaeili R](#), A Majid Ansari Recombinant anti-HER2 antibody production in bacterial host, European . Journal of Cancer Supplements,2010
20. Majidzadeh K, Amirkhani S, [Esmaeili R](#), Anbiaee R, Shahzade Fazeli A, Sheibani M, Mortazavizadeh M-R, SNP assessment of exons and introns of CYP2D6 gene with tamoxifenresistancy in breast cancer patients, 2013
21. Esmaeili R, mahboudi F etal, TaqMan based real-time PCR for Hepatitis B virus. (poster presentation in the 4th national biotechnology congress of Islamic Republic of Iran 15-17 Aug 2005, Kerman, Iran
22. Rezvan Bagheri,1, Ramin Sarrami-Frooshani,Hossein Khanahmade,Farzaneh Sabahi, mansour Abachi,[Rezvan Esmaeili](#),et al. Detection of polymerase chain Reaction – Amplified Immunodeficiency Virus proviral DNA with a digoxigenin – labeled nucleotide andEnzyme –linked oligosorbent assay., presentation in the 4th national biotechnology congress of Islamic Republic of Iran 15-17 Aug 2005, Kerman,Iran.
23. Esmaeili R, Mahboudi F etal, Quantification of human immunodeficiency virus type 1 based on gag transcript (1st international genomic congress, Tehran Iran 2006)

Participating in Research Projects as Co- investigator

- 2017 separation and characterization of cancer stem cells in breast cancer
- 2015 expression analysis of proliferative biomarkers in breast cancer patients
- 2014 investigating the effect of mesenchymal stem cell co culture with cancer cells 2013-
- 2014 two projects on gene expression analysis of testis specific antigens in breast cancer
- 2010-2015 effect of SD1 α pretreatment of mesenchymal stem cell on myocardial infarction in mouse model
- 2010 expression analysis of estrogen regulated genes in ductal carcinoma of breast.
- 2009 expression analysis of genes of plasminogen activator system in breast cancer patients
- 2008 phylogenetic analysis of HDV in Iranian patients.
- 2007 investigating the effect of Silibilin in inhibition of metastasis in HepG2 cell line, Tehran university of medical science and Pasteur institute of Iran
- 2004-2007 phylogenetic analysis of patients affected with HIV, Pasteur institute of Iran

Supervisor or Advisor of MSc Thesis and PhD dissertations

- 2017 PhD dissertation: Comparison of sarcoma vs carcinoma cancers for extracting similar genome patterns based on system biology approach, co supervisor
- 2017 MSc thesis: investigating the effect of PTEN inhibition in response to PARP inhibitors in triple negative breast cancer, supervisor
- 2016 MSc thesis: investigating the mutations of PIK3ca gene in response to trastuzumab, supervisor
- 2014 MSc thesis: the role of cyp2D6 polymorphism in tamoxifen resistance breast cancer patients, advisor

Teaching Experience

- 2017 Cancer genetics course for PhD students of bioinformatics, Tehran university, Iran.
- 2015 Real-Time PCR Workshop, Motamed Cancer Institute
- 2016 DNA, RNA extraction workshop, Motamed Cancer Institute
- 2009 Real-Time PCR Workshop, Pasteur Institute of Iran
- 2010 Real-Time PCR Workshop, (two times), Pasteur Institute of Iran
- 2002- 2007 Basic techniques in molecular biology, 5 times, Pasteur Institute of Iran
- 2007 An introduction to Basic Methods in biotechnology, Pasteur Institute of Iran
- 2002- 2007 Workshop on PCR, Real-time PCR, cloning, plasmid extraction, gel extraction, electrophoresis, Pasteur Institute of Iran

Professional Services and Outreach

- 2017 Step team leader, cellular and molecular committee, second international Tehran breast cancer congress (TBCC9)
- 2016- present **Executive manager editor**, journal of Multidisciplinary Cancer investigation, www. Mcijournal.com
- 2015- present member of scientific staff promotion sub-committee, Motamed Cancer Institute
- 2015- present member of scientific committee, genetics and recombinant protein groups
- 2013 member of scientific committee, 6th breast cancer congress, Tehran, Iran
- 2012 member of scientific committee, 4th breast cancer congress, Tehran, Iran
- 2009 member of executive committee, symposium of molecular aspects in breast cancer
- 2007 member of executive committee 4th virology congress, Tehran, Iran

Manuscript and Proposal Review

- Reviewer of Archive of breast cancer journal, molecular biology, merit research journal of med and medical science, breast disease journal, IJAAI, 2013- present

- Reviewer of DNA and Cell Biology journal, Meta gene journal, Molecular therapy nucleic acids- 2017,2018,2019
- Reviewer of PhD proposals, 2016, 2017, Tehran University
- Reviewer of MSc thesis, 2016, Azad university, Iran
- Reviewer of abstracts in congress, TBCC6,7,8,9 2013-2017
- Reviewer of proposals from ACECR. 2013- present

Other scientific involvement

- 2014 -2017 Establishment of recombinant protein group, Breast Cancer Research Center, Motamed cancer Institute
- 2007 Establishment of molecular laboratory Breast Cancer Research center
- 2007- Present Establisher and manager of breast cancer biologic banks

Gene Bank Submission

- 1- HIV genome DQ115641-DQ115707
- 2- HDV genome EU476899-Eu476910 and EU496556-EU496569