

**SUAD BINT MOHAMED BIN-AMER, Ph.D.**

King Faisal Specialist Hospital & Research Centre

Department of Molecular Oncology (MBC-03)

P.O. Box , Riyadh11211, Saudi Arabia

Tel. \* (966-1) 442 4584; Fax \* (966-1) 442 7858

E-mail: [suad@kfshrc.edu.sa](mailto:suad@kfshrc.edu.sa).

**EDUCATIONAL BACKGROUND**

**1990 – 1994 Ph.D.**, University of London, London School of Hygiene and Tropical Medicine

**1985 – 1989 M.Sc.**, American University, Washington, D.C., U.S.A.  
Department of Biology

**1974- 1978 B.Sc.**, College of Science in, Riyadh, Saudi Arabia.

**POSITIONS**

**2017 to date**

- **BOARD MEMBER OF NATIONAL CENTRE OF ONCOLOGY**

**2001 to date**

- **SENIOR SCIENTIST**
- **HEAD OF BREAST CANCER RESEARCH SECTION**

**2016 to date**

**ROFAIDA WOMEN'S HEALTH SOCIETY**

**2013 to date**

- **BOARD MEMBER OF GCC CANCER CONTROL FOUNDATION**

**2013 to date**

- **FOUNDER and VICE-PRESIDENT of ZAHRA BREAST CANCER ASSOCIATION** –Saudi Arabia. In memory of my beloved mother Zahra who died of breast cancer

**2009-2013**

- **VICE – PRESIDENT of EASTERN MEDITERRANEAN NGOs REGIONAL ALLIANCE**

**2000 - 2007**

- **FOUNDER and HEAD of NATIONAL BREAST CANCER AWARENESS PROGRAM**

**2000-2005**

- **CO-CHAIR OF KING KHALED FOUNDATION SCHOLARSHIP FOR HIGHER EDUCATION FOR SAUDI FEMALES**

**2002-2005**

- **CHAIRMAN OF SAUDI WOMEN IN SCIENCE COMMITTEE**

King Faisal Specialist Hospital and Research Centre  
Riyadh, Saudi Arabia.

**1998 - 2000**

- **SCIENTIST**

King Faisal Specialist Hospital and Research Centre  
Department of Biological & Medical Research

**1995 – 1998**

- **ASSOCIATE SCIENTIST (POSTDOCTORAL)**

Department of Oncology Pharmacology, Medical Center  
George Washington University, Washington, D.C. USA

**1989 – 1994**

- **RESEARCH ASSOCIATE**

King Faisal Specialist Hospital and Research Centre  
Department of Biological & Medical Research

**1980 – 1985**

- **RESEARCH ASSISTANT**

King Saud University  
Department of Biology

### **Meritorious Awards:**

- *Awardee* – American-Arab Anti –Discrimination Committee Women’s Empowerment Forum **Award for Excellence in Leadership of Public Health and Women’s Health** in the 2016 ADC-WEF International Women’s Day Celebration  
March 16, 2016, Washington DC, USA
- *Awardee* – **Arab Woman Award 2014**  
February 23, 2014 Riyadh, Saudi Arabia

- **Awardee – Susan G. Komen Breast Cancer Foundation 2006 Mission Conference**  
June 12, 2006, Washington DC, USA

## **NATIONAL AND INTERNATIONAL ORGANIZATIONS' MEMBERSHIP**

- **American Association for Cancer Research, Saudi Arabia**
- **AL-Eman Cancer Society, Saudi Arabia**
- **Saudi Cancer Foundation, Saudi Arabia**
- **Sanad Children Cancer Foundation, Saudi Arabia**
- **Bahrain Cancer Foundation, Kingdom of Bahrain.**
- **Scientific Affairs, Gulf Union Against Cancer**
- **The Gulf Federation of Cancer Control**
- **National Cancer Society, Saudi Arabia**

## **PROJECTS**

- Determination of DNA methylation profile of breast cancer patients to develop diagnostic and prognostic biomarkers
- Quick Gene Expression Profiling of Promyelocytic Cell line HL60
- PDCD2: A novel candidate of apoptosis Genes expressed in Human Breast Cancer Cell Lines with different genetic backgrounds after Paclitaxel (Taxol) Treatment
- The putative B7-H1 molecule expressed in Primary Cell Culture Generated from Saudi Breast Cancer Patients
- The B7\_H1 T Cell Inhibitory Molecule is Expressed in Tumor fibroblast Isolated from Breast Cancer Patients
- Gene Expression Profiles of the fibroblast from the normal tissue and breast tumor compared to the tumor Expression Profiles
- Expression of the B7\_H1 Protein Cancer Patients and its correlation with Clinicopathological Parameters
- The B7-H1 T lymphocytes Inhibitory molecule is expressed in breast cancer patients with infiltrating Ductal Carcinoma: Correlation with Important High Risk Prognostic Factors

- A comparative Study of cell Inactivation by Taxotere and Ukrain
- Breast Cancer Patients expressing B7-H1 molecule in the Tumor Cells Show high Mitotic index
- Expression of B7-H1 in Breast Cancer Patients is strongly Associated with High Proliferative Ki-67 Expression Tumor Cells
- Gene Expression profiling in women with Breast Cancer in a Saudi population
- Radiofluorination of Bombesin Peptide Analogs: A Potential Radiopharmaceutical for Breast Cancer Detection by PET Imaging
- Transcriptional Profiling of Breast Tumors to Identify Age Specific Gene Signature and molecular Characterization of Cancer Progression in Middle Eastern woman

## Publications

- Amal Qattan, Haya Intabli, Wafa Alkhayal, Taher Al-Tweigeri, Suad Amer. (2019) **“Novel circulating miRNAs Biomarkers and target prediction in triple negative breast cancer (TNBC)”**. Pharmakeftiki. 2019 vol.31, issue II.
- Amal Qattan, Haya Intabli, Wafa Alkhayal, Chafica Eltabache, Taher Tweigerie, Suad Bin Amer, (2017) **Robust Expression of tumor suppressor miRNA’s let-7 and miR-195 detected plasma of Saudi female breast cancer patients”**. BMC Cancer. 2017 Nov 28;17(1):799.doi:10.1186/s12885-017-3776-5
- Dilek Colak, Asmaa Nofal, AlBandary AlBakheet , Maimoona Nirmal , Hatim Jeprel , Abdelmoneim Eldali , Taher. Al-Tweigeri, Asmaa. Tulbah, Dahish. Ajarim, Osama. Almalik, Mehmet S. Inan , Namik kaya , Ben H. Park **Suad M. Bin Amer. Age –Sepecific Gene Expression Signatures for Breast Tumors and Cross-Species Conserved Potential Cancer Progression Markers in Young Women** , PLoS one , 2013 :Vol.8(5):1-13
- M.S.AlSalhi, **S. Bin Amer**, K.Farhat ,D.Rabah, S.Devanesan ,M. Atif, V.Masilamani, and Reem. .K. .S.. AL-Dakheel. **Optical Biopsy of Breast Cancer Tissue**. Laser Methods in Chemistry, Biology, and Medicine July 9,2012
- I. Al-Jammaz,\* B. Al-Otaibi, S. Okarvi, **S. Bin Amer** and J. Amarty. **Synthesis and in vitro and in vivo evaluation of fluorine-18 labeled folates: Potential PET radiopharmaceuticals**, J. Nucl. Med. Biol., 2011
- AlJammaz, M. Subhani, **S. Bin Amer**, B. Al-Otaibi and J. Amartey, **Fluorine-18 Labeled Bombesin Peptide Analogs: Potential PET Radiopharmaceuticals for Breast Cancer Imaging**, Eur. J. Nucl. Med. & Molec. Imag., 35, 459, 2008.

- **Suad M. BinAmer**, Zakia Maqbool, Maimoona S. Nirmal ,Amal T. Qattan, Syed S. Hussain, Hatim A. Jeprel, Asma M. Tulbah, Osama A. Malik, Dahish S. Ajarim, Taher A. Al-tweigieri: **Gene expression profiling in women with breast cancer in a Saudi population.** Saudi Medical Journal, 2008,477-483
- Ghebeh H, Tulbah A, Mohammed S, Elkum N, **Bin Amer S**, Al-Tweigeri T, Dermime S. **Expression of B7-H1 in breast cancer patients is strongly associated with high proliferative Ki-67-expressing tumor cells.** International Journal of Cancer. 2007; 121:751-8
- Syed S. Hussain, Amal T Qattan, Maimoona Nirmal, Osama Al-Malik, Taher Twegieri,
- Asma Tulba,Suad M. Bin Amer, **Gene expression profiles of the fibroblasts from breast tumors and normal tissue compared to the tumor expression profiles.**Saudi Medical Journal , 2006: Vol. 27 (4):463-469.
- Hazem Ghebaeh , Shamayel Mohammed, Abeer Al-Omair, Amal Qattan, Cynthia Lehe,
- Ghofran Al-Qudaihi, Naser Elkum, Mohamed Al-Shabana, **SuadBin-Amer**, AsmaTulbah , Dahish Ajarim, Taher Al-Tweigeri, Said Dermime. **The B7-H1 (PD-1) T Lymphocyte-Inhibitory Molecule is expressed in breast cancer patients withinfiltrating ductal carcinomas: Correlation with important high-risk prognosticfactors.** Neoplasia Vol. 8, No. 3, March 2006
- Syed S. Hussain, Hala Khalil, Tala M. Bakheet, **Suad M. Amer**, **Quick gene expression profiling of promyelocytic cell line HL-60.** Saudi Med J. 2003; 24 (11): 1199-1204
- Ogbunude, P.O.J., **Amer S.M.** *In Vitro* effect of diamidines on intracellular polyamines of *Acanthamoeba polyphaga*. Drugs Exptl Clin Res. (XXVII) 2001.
- Lin Z., Boller Y.C., **Amer, S.M.**, Russel R.L., Pacelli, K.A., Patierno, S., Kennedy, K.A.A. **Prevention of brefeldinA-induced resistance to teniposide by the proteasome inhibitor**
- **MG-132: involvement of NF-kappaB activation in drug resistance.** Cancer Res. 1998; 58 (14): 3059-65.

## ABSTRACTS

- Eman Barhoush, Haya Intabli, Chafica El Tabache, Abdelmoniem Eldali, Asma Tulbah, Yamna Rahim, Wafa Alkhayal, Ahmed Yaqinuddin, Asma Tulbah, Taher Twegeiri, Amal Qattan, **Suad M. Bin Amer. “Aberrant Hypermethylation of RASSF1A, APC and DKK3 in breast cancer patients from Saudi Arabia”.** Accepted in 2015 Annual Research Report KFSHRC
- Eman Barhoush, Haya Intabli, Chafica El tabache, Abdelmoniem Eldali, Asma Tulbah, Taher Twegeiri, Amal Qattan, Ahmed Yaqinuddin, **Suad M. Bin Amer. Determination of methylation status of RASSF1A, APC and ITH5 as diagnostic and prognostic biomarkers in tissue samples of breast cancer patients from Saudi population”.** Selected by the 10<sup>th</sup> European Breast Cancer Conference Scientific Committee, March 9-11 2016, Amsterdam, The Netherlands.
- Dilek Colak , Maimoona Nirmal, Hatim Jeprel, Asmaa Nofal, Taher Al-Tweigeri, Asma Tulbah, Dahish Ajarim, Osama Almalik, **Suad Bin Amer. Gene Expression Profiling of Breast Tumors to Identify age – specific signatures and molecular characterization of Cancer Progression in Saudi Females. Accepted in the 2008 Annual Report KFSHRC**
- Mehmet Sait Inan, Maimoona Nirmal, Hatim Jeprel, Laila Al-Alwan, Dahish. Ajarim, Asma Tulbah, Osama Almalik, Taher Al-Tweigeri, **Suad Bin Amer. Characterization of human breast tumors according to age specific differences by using gene expression profiles to evaluate age as an independent risk factor for prognosis in Saudi females.** Accepted for presentation of the American Association for Cancer Research from Laboratory to clinic, March 17 – 20, 2008
- Majed s. Alokail, LAyla J. Al – Mansouri, Suad M. Bin Amer. **Gene array Analysis of breast cancer cell lines treated with Taxotere and Ukrain.** Accepted for presentation of the American Association for Cancer Research from Laboratory to clinic, March 17 – 20, 2008
- Qattan A, Hussain SS, Nirmal M, Jeprel H, Tulbah A, Malik O, Al – Twiegiri T, Maqbool Z, **Suad M. Bin Amer. Gene Expression Profiling in women with Breast Cancer in a Saudi Population.** International Cancer Symposium “ Working Towards a Cure”, November 7th – 9th 2007
- Ghebeh, H. Tulbah, A. Mohammed, S. Bin Amer, S. Al-Tweigeri, T. and Dermime, S. **Breast Cancer Patients expressing B7-H1 molecule in their tumor cells show high mitotic index.** Presented in 25<sup>th</sup> Congress of the international association of breast cancer research held 15-18 September 2006, Montreal, Canada and published as an abstract in *Breast Disease Journal* 2006 25; 67
- **Amer Suad M., Amal T. Kattan , Maimoona Nimal , Ossama Al-Malik, Taher Al-Tweigeri, Asma Tulbah, Syed Hussain. Gene expression profiles of the fibroblasts from the normal tissue and the breast tumor compared to the tumor**

- expression profiles.** 96<sup>th</sup> Annual Meeting of the American Association for Cancer Research, April 16-20,2005Anaheim,Orange County, CA
- Hazem Ghebaeh , Shamayel Mohammed, Abeer Al-Omair, Amal Qattan, Cynthia Lehe, hofran Al-Qudaihi, Naser Elkum, Mohamed Al-Shabana, **Suad Bin-Amer**, Asma Tulbah , M, Dahish Ajarim, Taher Al-Tweigeri, Said Dermime.**The B7-H1 protein is expressed in breast cancer patients:al carcinomas: Correlation with the clinicopathological parameters. International Society for biologicaltherapy of Cancer** 20<sup>th</sup> annual Meeting, Alexandria, Virginia, USA, 10-13 , November 2005
  - Taher Al-Tweigeri, Suad M. **Amer**, Amal T. Qattan , Maimoona Nimal, Asma Tulbah, Syed Hussain. **Gene expression profiles of estrogen receptor positive and estrogen receptor negative breast cancer tumors, similarities and difference.** Management of cancer.29 September- 1 October, 2004, Cairo-Egypt
  - Hazem Ghebaeh, Ghofran Al-qudaihi, , Cynthia Lehe, Abeer Al-Omair, Suad **Amer**, Amal Qattan , Assma Tulbah, Mohamed Al-shabana, Taher Al-Tweigeri, Said Dermime. **The putative B7-H1 molecule is expressed in primary cell culture generated from Saudi breast cancer patients.** CNIO cancer conference.27-29 September 2004, Madrid, Spain
  - Ghebeh, H., Al-Qudaihi, G., Lehe, C., Al-Omair, A., **Bin-Amer, S.**, Qattan, A., Tulbah, A. Al-Shabanna, M., Tweigri, T., Dermime, S., “**Expression of The Wilms Tumor (WT1) Gene in Saudi Leukaemia Patients and its Use as a Potential Target for Immunotherapy of Cancer**” submitted to the 9<sup>th</sup> Symposium on Genetics in Health and Disease-implications for the individuals, Family and Community 2004 Riyadh, Saudi Arabia.
  - Said Dermime, Hazem Ghebaeh, Cynthia Lehe, Abeer Al-Omair, Ghofran Al-qudaihi,**Suad Bin Amer**, Amal Qattan , Asma Tulbah, Mohamed Al-shabana, Taher Al Tweigeri.**The B7-H1 T-cell inhibitory molecule is expressed in tumor associated fibroblasts isolated from Saudi breast cancer pationts.** 4<sup>th</sup> European conference: perspectives in breast cancer.22-25 September 2004, Madrid, Spain
  - **Amer S.M,A.T.** Qattan , M.Nimal, , Taher Al-Tweigeri , A. Tulbah, S. Hussain. **Gene expression profiles of the locally advanced breast cancer.** 4<sup>th</sup> European conference: perspectives in breast cancer.22-25 september 2004, Madrid, Spain
  - **Amer S**, Hussain S, El-Bitar F, Kattan A, Ajarim D, Twegieri T. **Molecular characterization of breast cancer cell lines by gene expression profiling after treatment with Paclitaxel (Taxol)**, Fifth Madrid Breast Cancer Conference. Madrid, 2003.

- **Amer, S.M.,** Syed Hussain , Fadia El Bitar, Amal Qattan, Dahish Ajarim, Taher Al-Tweigeri.**Molecular characterization of breast cancer cell lines by gene expression profiles after treatment with Paclitaxel (Taxol).** 5<sup>th</sup>Madrid Breast Cancer Conference Jun 11-13-2003, Madrid, Spain
- **Amer, S.M.,**Fadia El Bitar, , Amal Qattan, Taher Al-Tweigeri, Syed Hussain.**Gene expression Profiles of two Human Breast Cancer Cell Lines After Treatment with Taxol.** Cancer 2002, An International Symposium, KFSH&RC, Riyadh, Saudi Arabia 2002
- M.C.Paterson, A.Ezzat, B.Fraser S. Hussain, Z. Hussein, S.M. **Asiri Amer,** M.Fraser, K.Dobler, B. Mann, R.Stewart, A. Rustom, R. Sorbis.**Differential prevalence of BRCA1 and BRCA2 germline mutations in breast cancer patients in Saudi Arabia.** Breast Diseases, Jeddah , Saudi Arabia 2002
- **Amer S.M.,** Lim, Z.P., Bolller, Y.C., Kennedy, K.A.**Resistance to teniposide (VM26) in MDA-MB231 human breast cancer cells is related to the ER-overload response pathway,** 89<sup>th</sup> Annual Meeting of the American Association for Cancer Research, New Orleans, (1998)

### PEER REVIEWED ARTICLES

- Hazem Ghebeh, Asma Tuellbah, Syamayel Mohammed, Naser El Kum, **Suad M. Bin Amer,** Taher Al-Tweigeri, Said Dermime. **Expression of B7-H1 lymphocyte in breast cancer patients is strongly associated with high proliferative Ki-67-expressing tumor cells.** Int. J. Cancer , 2007 Aug.15:121(4):751-8
- H Ghebeh, S. Mohammad, A. Al-Omair, A. Qattan, C. Lehe, G. Al Qudaihi, N.Elalum, **S Bin Amer,** A Tulbah, D. Ajarim, T. Al Tweigeri, S. Dermime. **The B7-H1 (PD-L1) T lymphocyte – inhibitory molecule is expressed in breast cancer patients with infiltrating ductal carcinoma: Correlation with important high risk prognostic factors.** Neoplasia,2006: Mar 8 (3):190-8