

CURRICULUM VITAE

Abdulraheem M. A. Alshareef

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CURRENT POSITIONS:

- Assistant Professor, Specializing in Hematology and Blood Bank, Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, Taibah University. July 2017 – present.

CURRENT SCIENTIFIC MEMBERSHIPS:

- Saudi Laboratory Specialist Licensure Examination Committee, Saudi Commission for Health Specialities. For three years (started from July 2019).
- Deanship of Scientific Research, Taibah University. For two years (started from March 2019).

PREVIOUS POSITIONS:

- Vice Dean for Graduate Studies and Scientific Research, College of Applied Medical Sciences, Taibah University. October 2018 – November 2020.
- Director of the Center of Genetics and Inherited Diseases, College of Medicine, Taibah University. May 2018 – May 2019.
- Vice Dean, College of Applied Medical Sciences, Taibah University. October 2017 – October 2018.

EDUCATION:

- January 2011 – May 2017: **Doctor of Philosophy (Ph.D)**, Department of Laboratory Medicine and Pathology, University of Alberta, Edmonton, Canada.
- February 2009 - July 2010: Master of Laboratory Medicine (major in hematology) at RMIT University, Melbourne, Australia.
- September 2001 - June 2006: Bachelor of Medical Sciences (major in Laboratory Medicine and Pathology), College of Medicine and Medical Sciences, Umm Al – Qura University, Makkah, Saudi Arabia.

BUSINESS EDUCATION:

- September 2018 – July 2020 (Part-time): **Executive MBA** (Master of Business Administration), Prince Mohammad Bin Salman College (MBSC) of Business & Entrepreneurship, King Abdullah Economic City, Saudi Arabia.
- Certified **Project Management Professional (PMP)®** by the Project Management Institute (PMI) .

WORKSHOPS FROM THE NATIONAL CENTER FOR ACADEMIC ACCREDITATION AND EVALUATION (NCAAA)

- Assessment of Learning outcomes, 26-27 September 2018.
- Learning outcomes and KPIs, 4-5 January 2018.

- How to utilize NCAAA's Surveys for Quality Improvement, 22-23 November 2017.

TEACHING EXPERIENCE

- Teaching Hematology courses (MLT 248 and MLT 347) at Taibah University (2017/2018, 2018/2019 and 2019/2020).
- Teaching Blood Bank (Immunohematology) course (MLT 448) at Taibah University (2017/2018 and 2018/2019).
- Teaching Molecular & Medical Genetics course (MLT 331) at Taibah University (Summer 2018).
- Teaching Quality Assurance & Laboratory Management course (MLT 458) at Taibah University (Summer 2017).
- Completion of level one of the University of Alberta Graduate Teaching and Learning Program, January 31, 2013.
- Participate in teaching phase one hematology course (MLSCI 230), Fall 2015, Department of Laboratory Medicine and Pathology, University of Alberta, Edmonton, Canada.

NON-ACADEMIC ACTIVITY

- Supervising student's club at the faculty of Applied Medical Sciences, Taibah University. 2018 – present.
- MBA executive program at Babson College, Boston, USA. June 10 – 21, 2019.
- President of the Edmonton Saudi students club, Saudi Arabian Cultural Bureau in Canada. 2013.
- Vice president of the Edmonton Saudi students club, Saudi Arabian Cultural Bureau in Canada. 2016.

PEER-REVIEWED PUBLICATIONS

First Author:

1. **Alshareef A**, Peters A, Gélébart P, Chen W, Lai R. Gene Methylation and Silencing of WIF1 is a frequent genetic abnormality in mantle cell lymphoma. *Int. J. Mol. Sci.* Accepted.
2. **Alshareef A**. A Framework to Motivate Students in Choosing Their Future Medical School. *Universal Journal of Educational Research*. 2020.
3. **Alshareef A**. Evaluation of SARS-CoV-2 entry factors and its impact on myeloid cancers. *International Journal of Clinical Oncology and Cancer Research*. Accepted.
4. **Alshareef, A**, Alsaedi, A. K, Alnakhli, A. A, Albeladi, A. A, AlHejili, R. S, Younis M. S. Wet cupping (Hijama) positively and significantly impacted multiple hematological parameters. *Majmaah J Heal Sci*. Accepted.
5. **Alshareef, A**, Albeladi, A. A, Alsaedi, A. K, Alnakhli, A. A, AlHejili, R. S. Public Perceptions of Cupping Therapy (Hijama) and Whether It Will Be Chosen Over Donating Blood. *JOCAMR*. 2021.

6. **Alshareef A**, Balkhair H, Abbas A, Rizq M, Alhashmi H. Mitigation of patients with hematological disorders during COVID-19 pandemic through telemedicine: the physician's perspectives. doi:10.24911/SJEMed/72-1598255990. 2021.
7. **Alshareef A**. Novel Molecular Challenges in Targeting Anaplastic Lymphoma Kinase in ALK-Expressing Human Cancers. *Cancers*. 2017.
8. **Alshareef A**, Gupta N, Zhang HF, Wu C, Lai R. High expression of β -catenin confers crizotinib resistance in the small subset of stem-like neuroblastoma cells. *Scientific Reports*. 2017.
9. **Alshareef A**, Zhang H, Huang YH, Wu C, Zhang JD, Wang P, El-Sehemy A, Fares M, Lai R. The use of cellular thermal shift assay (CETSA) to study Crizotinib resistance in ALK-expressing human cancers. *Scientific Reports*. 2016.
10. **Alshareef A**, Irwin M, Gupta N, Zhang HF, Haque M, Findlay S, Rayis M, Al-Dandan S, Lai R. The absence of a novel intron 19-retaining ALK transcript (*ALK-I19*) and *MYCN* amplification correlates with an excellent clinical outcome in neuroblastoma patients. *Oncotarget*. 2018.

Co-authored:

1. Mulla N, **Alshareef A**, Syed AR, Al-Jahel M. Clinico-Pathological Study of K-ras Mutations in Colorectal Tumors: A Single-Center Retrospective Study of 51 Patients in Madinah, Saudi Arabia. *Cureus*. 2020.
2. Talal Aljehani Y, Eid Alanzi M, Talal Aljehani S, Saad Alghamdi K, Awadh ALHarthi N, **Alshareef A**, et al. Prevalence and Factors Associated with Postpartum Depression among Women Attending Primary Health Care Centers in Al-Madina, Saudi Arabia. *Research in Psychology and Behavioral Sciences*. 2020;8(1):18-24.
3. Huang YH, Molavi O, **Alshareef A**, Haque M, Wang Q, Chu MP, Venner CP, Sandhu I, Peters AC, Lavasanifar A, Lai R. Constitutive activation of STAT3 in myeloma cells cultured in a three-dimensional, reconstructed bone marrow model. *Cancers*. 2018.
4. Soleymani Abyaneh H, Gupta N, **Alshareef A**, Gopal K, Lavasanifar A, Lai R. Hypoxia Induces the Acquisition of Cancer Stem-like Phenotype Via Upregulation and Activation of Signal Transducer and Activator of Transcription-3 (STAT3) in MDA-MB-231, a Triple Negative Breast Cancer Cell Line. *Cancer Microenvironment*. 2018.
5. Wu C, Gupta N, Huang YH, Zhang HF, **Alshareef A**, Chow A, Lai R. Oxidative stress enhances tumorigenicity and stem-like features via the activation of the Wnt/ β -catenin/MYC/Sox2 axis in ALK-positive anaplastic large cell lymphoma. *BMC cancer*. 2018.
6. Gupta N, Gopal K, Wu C, **Alshareef A**, Chow A, Wu F, Wang P, Ye X, Bigras G, Lai R. Phosphorylation of Sox2 at Threonine 116 is a novel marker to identify a subset of breast cancer cells with high tumorigenicity and stem-like features. *Cancers*. 2018.
7. Soleimani A, Garg S, Paiva I, Vakili M, **Alshareef A**, Huang Y, Molavi O, Lai R, Lavasanifar A. Micellar nano-carriers for the delivery of STAT3

- dimerization inhibitors to melanoma. *Drug Delivery and Translational Research*. 2017.
8. Gupta N, Jung K, Wu C, **Alshareef A**, Alqahtani H, Damaraju S, Mackey J, Ghosh S, Sabri S, Abdulkarim B, Bigras G, Lai R. High Myc expression and transcription activity underlies intra-tumoral heterogeneity in triple-negative breast cancer. *Oncotarget*. 2017.
 9. Wu C, Zhang HF, Gupta N, **Alshareef A**, Wang Q, Huang Y, Lewis J, Douglas D, Kneteman N, Lai R. A positive feedback loop involving the Wnt/ β -catenin/MYC/Sox2 axis defines a highly tumorigenic cell subpopulation in ALK-positive anaplastic large cell lymphoma. *Journal of Hematology & Oncology*. 2016.
 10. Zhang HF, **Alshareef A**, Wu C, Jiao JW, Sorensen P, Lai R, Xu LY, Li EM. miR-200b induces cell cycle arrest and represses cell growth in esophageal squamous cell carcinoma. *Carcinogenesis*. 2016.
 11. Zhang HF, Wu C, **Alshareef A**, Gupta N, Zhao Q, Xu XE, Jiao JW, Li EM, Xu LY, Lai R. The PI3K/AKT/c-MYC Axis Promotes the Acquisition of Cancer Stem-Like Features in Esophageal Squamous Cell Carcinoma. *Stem Cells*. 2016.
 12. Zhang H, Chengsheng Wu, **Alshareef A**, et al. The Opposing Function of STAT3 as an Oncoprotein and Tumor Suppressor Is Dictated by the Expression Status of STAT3 β in Esophageal Squamous Cell Carcinoma. *Clinical Cancer Research*. 2016.
 13. Alqahtani H, Gopal K, Gupta N, Jung K, **Alshareef A**, et al. DDX17 (P72), a Sox2 binding partner, promotes stem-like features conferred by Sox2 in a small cell population in estrogen receptor-positive breast cancer. *Cellular Signalling*. 2016.
 14. Gopal K, Gupta N, Zhang H, **Alshareef A**, et al. Oxidative stress induces the acquisition of cancer stem-like phenotype in breast cancer detectable by using a Sox2 regulatory region-2 (SRR2) reporter. *Oncotarget*. 2016.
 15. Jung K, Gupta N, Wang P, Lewis JT, Gopal K, Wu F, **Alshareef A**, et al. Triple negative breast cancers comprise a highly tumorigenic cell subpopulation detectable by its high responsiveness to a Sox2 regulatory region 2 (SRR2) reporter. *Oncotarget*. 2015.
 16. Wu C, Molavi O, Zhang H, Gupta N, **Alshareef A**, Bone KM, et al. STAT1 is phosphorylated and down-regulated by the oncogenic tyrosine kinase NPM-ALK in ALK-positive anaplastic large cell lymphoma. *Blood*. 2015.
 17. Zhang H, **Alshareef A**, Wu C, Shang Li, et al. Loss of miR-200b promotes invasion via activating the Kindlin-2/Integrin β 1/AKT pathway in esophageal squamous cell carcinoma: an E-cadherin-independent mechanism. *Oncotarget*. 2015.
 18. Jung K, Wang P, Gupta N, Gopal K, Wu F, Ye X, **Alshareef A**, et al. Profiling gene promoter occupancy of Sox2 in two phenotypically distinct breast cancer cell subsets using chromatin immunoprecipitation and genome-wide promoter microarrays. *Breast cancer research: BCR*. 2014.

19. Hegazy SA, **Alshareef A**, Gelebart P, Anand M, Armanious H, Ingham RJ, et al. Disheveled proteins promote cell growth and tumorigenicity in ALK-positive anaplastic large cell lymphoma. *Cellular Signalling*. 2013.

PRESENTATION AND RESEARCH

Oral presentation

- Is your compound actually safely therapeutic? , International Pharma Exhibition & Conference (INPHEX), Riyadh, Saudi Arabia, 24-26 February 2019.
- Quality Indicators in Hematology Laboratory (Hematology Lab: Accreditation roadmap), Pan Arab and Saudi Hematology Congress, Madinah, Saudi Arabia, 2019.
- The use of cellular thermal shift assay (CETSA) to study Crizotinib resistance in ALK-expressing human cancers. The 7th ERIA meeting, Vienna, Austria, September 28, 2016.
- Differential oncogenic role of anaplastic lymphoma kinase (ALK) in ALK-positive neuroblastoma cell, Canadian Cancer Research Conference, Montreal, Canada, 2015.
- The oncogenic role of the anaplastic lymphoma kinase (ALK) in cancer. Lab Medicine & Pathology Departmental Rounds, University of Alberta, October 23rd, 2014.
- Frequency and Antimicrobial Susceptibility Patterns Among Bacterial Pathogens Isolated from Patients with Septicemia in Makkah Hospitals. 2nd Applied Medical Sciences student conference, Jeddah, May 2nd, 2006.
- Antimicrobial Resistance Problem: Is it at a Global Level?. Al Hada Armed Forces Hospital, Taif, 30 March 2006.

Poster presentation

- The use of cellular thermal shift assay (CETSA) to study Crizotinib resistance in ALK-expressing human cancers. Drive day, University of Alberta. 3rd Annual CRINA Research Day, University of Alberta. November 12th, 2016
- The use of cellular thermal shift assay (CETSA) to study Crizotinib resistance in ALK-expressing human cancers. Drive day, University of Alberta. April 15th & 16th, 2016.
- Differential oncogenic role of anaplastic lymphoma kinase (ALK) in ALK-positive neuroblastoma cells. CRINA Research Day, University of Alberta, November 15th, 2014.

Research Projects

- Master Project (3 months) “RNAi therapy: Applications in β -thalassaemia”.
- Bachelor Project (one year) “Frequency and Antimicrobial Susceptibility Patterns among Bacterial Pathogens Isolated from Patients with Septicaemia in Makkah Hospitals, Saudi Arabia”.

Undergraduate TRAINING

Internship Program

Department of Laboratory Medicine (CAP & AABB), Al Hada Armed Forces Hospital, Taif, Saudi Arabia, June 2005 – June 2006.

Summer Training

Al-Madina Reference Lab, 2004

Dr.Hamid Specialist Center, 2003

Conferences

- The 3rd *New Directions in Leukaemia Research* (NDLR), on the Sunshine Coast, Queensland, Australia from March 28th to Wednesday March 31st 2010.
- International symposium & workshops; current concepts & issues in pathology & laboratory medicine, National Guard Officer's club, Riyadh, Saudi Arabia, 19-21 November 2007.
- Workshop on DNA Electrophoresis, During the Fourth GCC Medical Students Conference, Oman, 22 January 2006.
- Fourth GCC Medical Students Conference, Oman, 21-24 January 2006
- The International Saudi Symposium of Pediatric Hematology/Oncology, Jeddah, 21 November 2005.
- Special course addressing the uses of anti microbial drugs, Department of Pharmacology and Toxicology under the supervision of the Saudi Council for Health Specialties, Faculty of Medicine and Medical Sciences, KSA, 13-14 June 2005.
- Applied Medical Sciences Student Conference, King Abdulaziz University, Faculty of Applied Medical Sciences. 2-3 May, 2006

HOBBIES

Football, Swimming, Reading, Traveling.

REFERENCES

Raymond Lai, MD, PhD, FRCP (rlai@ualberta.ca)

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