

Abdelghani Tbakhi, M.D., FCAP

December 2023

CURRENT POSITION:

Professor of Pathology and Molecular Medicine, Faculty of Health Sciences
McMaster University
Discipline Director/Head of Service/Hematology & Histocompatibility
Director, Cellular Therapy & Transplantation (CTT) Processing Facilities
Hamilton Regional Laboratory Medicine Program (HRLMP) / Hamilton Health Sciences

ADDRESS:

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PROFILE:

A Diplomate of the American Board of Pathology (Combined Anatomic and Clinical Pathology, and Immunopathology) with 32 years of experience. Trained as a resident in Anatomic and Clinical Pathology (AP/CP) and a Surgical Pathology Fellow at the University of Texas Medical Branch, Galveston, TX; and Fellowships in Immunopathology and Diagnostic Molecular Pathology at the Cleveland Clinic Foundation, Cleveland, OH. Moved to Saudi Arabia late 1998 where worked as the Deputy Chairman and Head, Immunopathology & Molecular Genetics and the Director, Flow Cytometry Laboratory at the Department of Pathology and Laboratory Medicine, King Faisal Specialist Hospital and Research Centre (KFSH&RC) in Riyadh, Saudi Arabia. In 2007, joined the Department of Pathology and Laboratory Medicine at Hôtel-Dieu Grace & Windsor regional Hospital in Windsor Ontario, and joined the faculty (teaching and research) at the newly established Windsor Campus of “The Schulich School of Medicine & Dentistry, University of Western Ontario” as an Adjunct Professor. After that, was the founder and Full member (Professor) and the Chairman of Department of Cell Therapy & Applied Genomics, Consultant Molecular and Immunopathologist, Chairman of Research Council and Co-Director and Co-Founder of The Cancer Care Informatics (CCI) Program at King Hussein Cancer Center.

Currently, a Professor of Pathology and Molecular Medicine at McMaster University, Discipline Director/Head of Service/Hematology & Histocompatibility and the Director, Cellular Therapy & Transplantation (CTT) Processing Facilities at Hamilton Regional Laboratory Medicine Program (HRLMP)/ Juravinski Hospital & Cancer Centre.

Areas of interest and expertise include Genomics and Molecular Genetic Pathology, Clinical Informatics, Immunopathology, Transplant Pathology and Flow Cytometry. Extensive experience in stem cell processing, cord blood banking and applied transplant immunology.

Enjoys establishing and effectively utilizing state-of-the-art laboratory ventures (e.g., Laboratory Automation, Molecular Genetic Pathology Core Facilities and the first Cord Blood Bank in the Middle East, and first national cord blood bank in Jordan).

Immense contributions to patient care, administration, post graduate education and research.

Prolific academician/scientist with 17+ grants, 130 + manuscripts, 2 book chapters and 170 + abstracts.

Serves as Inspection Team leader for the College of American Pathologists (CAP). Well acquainted with AABB, FACT, JACIE, ASHI and GTP/GMP standards and guidelines.

BIOGRAPHICAL:

Date of Birth: October 1, 1962
Place of Birth: Amman, Jordan
Marital status: Married (Spouse: Joman Farhan, M.D.)
Nationality: Canadian; Jordanian

JOINT APPOINTMENTS:

2023- Adjunct Professor, Hashemite University, Jordan
2007 - 2012: Adjunct Professor, University of Western Ontario
2001 - 2007: Assistant Professor of Pathology. King Saud University - Riyadh, Saudi Arabia
2003 - 2007: Consultant, Section of Adult Hematology. King Faisal Cancer Centre (KFSHRC)

BOARDS CERTIFICATION & ELIGIBILITY:

05 / 1995: Diplomate, American Board of Pathology (Combined Anatomic and Clinical)
07 / 1997: Diplomate, American Board of Pathology (Immunopathology)
11 / 1997: Certified, American Board of Medical Laboratory Immunology, Part I
07 / 1998: Eligible, American Board of Molecular Genetics Pathology
01 / 2003: Eligible, American Board of Histocompatibility and Immunogenetics
07 /2006: Eligible, Royal College of Physicians and Surgeons – Canada

EDUCATION & DEGREES:

1986: Jordan University / Faculty of Medicine; M.B, B.S. (British equivalent of M.D.)
1980: Schools of Scientific College; General Secondary Education Certificate Examination (Graduation with **honors**)

CERTIFICATES:

1989: Educational Commission for Foreign Medical Graduates (ECFMG Certificate)
1993: Federation of Licensure Examination (FLEX)

PROFESSIONAL EXPERIENCE:

2023- Professor of pathology and Molecular Medicine
McMaster University
Director, Stem Cell Facilities
Hamilton Regional Laboratory Medicine Program (HRLMP)

2011-2023: Chairman, Department of Cell Therapy & Applied Genomics
Consultant, Molecular and Immunopathology
Chairman, Research Council

2007-2011: Adjunct Professor, The Schulich School of Medicine & Dentistry, University of Western Ontario
Consultant, Molecular and Immunopathologist
Department of Pathology and Laboratory Medicine
Hôtel-Dieu Grace & Windsor Regional Hospitals- Windsor, ON

- 2003-2007: Deputy Chairman and Head, Immunopathology & Molecular Genetics,
Director, Flow Cytometry Laboratory
Department of Pathology and Laboratory Medicine (DPLM)
King Faisal Specialist Hospital and Research Center (KFSH & RC) - Riyadh, Saudi Arabia
- 1999-2003: Head, Section of Immunopathology
Director, Flow Cytometry Laboratory
Pathologist-In-Charge, Section of Specimen Collection and Processing
Department of Pathology and Laboratory Medicine (DPLM)
King Faisal Specialist Hospital and Research Center (KFSH & RC) - Riyadh, Saudi Arabia
- 1998-1999: Associate Consultant, Acting Head, Section of Immunopathology
Pathologist-In-Charge, Section of Specimen Collection and Processing
Department of Pathology and Laboratory Medicine (DPLM)
King Faisal Specialist Hospital and Research Center (KFSH & RC) - Riyadh, Saudi Arabia
- 1996-1998: Fellow, Diagnostic Molecular Pathology
Developmental Diagnostic Molecular Pathology Laboratory - Section of Molecular Pathology,
Department of Clinical Pathology - The Cleveland Clinic Foundation, Cleveland, Ohio - USA
- 1994-1996: Special Fellow, Immunopathology; Cleveland Clinic Foundation, Cleveland, Ohio - USA
- 1993-1994: Fellow, Surgical Pathology; University of Texas Medical Branch, Galveston, Texas - USA
- 1990-1993: Resident, Pathology (AP/CP); University of Texas Medical Branch, Galveston, Texas - USA
- 1989-1989: Resident, Pathology Department; Royal Medical Services- King Hussein Medical Center,
Amman- Jordan
- 1988-1989: Resident, Burn Intensive Care Unit; Farah Royal Jordanian Rehabilitation Center, Amman
Jordan
- 1986-1987: Intern, rotating; Islamic Hospital - Amman-Jordan

LOCUM TENENS

- 05-06 / 1996 & 08-09 / 1997: Consultant Pathologist, Saudi Aramco Medical Services Organization, Dhahran Health Center
Dhahran - Saudi Arabia

PROFESSIONAL LICENSES & MEMBERSHIPS:

- 2008: Member, American Society of Transplantation
- 2007: License to practice Medicine in Ontario
- 2006: Member, International Society for Stem Cell Research
- 2002: Member, Saudi Council for Health Specialties.
- 1999: Member, International Society for Hematotherapy and Graft Engineering (ISHAGE)
- 1998: License to practice Medicine in Ohio
- 1995: License to practice Medicine in Pennsylvania
- 1992: Member, United States and Canadian Academy of Pathology (USCAP)
- 1992: Member, American Society of Clinical Pathology
- 1991: Member, College of American Pathologists (*Inspector, Team Leader*)
- 1990: Member, Houston Society of Clinical Pathologists
- 1988: License to practice Medicine - Hashemite Kingdom of Jordan

1987: Member, Jordan Medical Association

EXTRACURRICULAR MEMBERSHIPS:

1982 - 1986: Executive member, Medical Sciences Society; Faculty of Medicine/Jordan University
1983 - 1984: President, Medical Sciences Society; Faculty of Medicine/Jordan University
1983 - 1986: Member, Board of Editors, Student Voice Newspaper, Jordan University
1982 - 1986: Member, Teachers-Students Committee; Faculty of Medicine/Jordan University

HOSPITAL & DEPARTMENTAL COMMITTEES:

KHCC

2021 - 2021 Member, Biobank Governance Committee
2013 – 2021 Member, Strategic Planning Committee
2012 – 2021 Chairman, Research Council
2012 – 2021 Member, Appointment and Promotion Committee
2012 – 2015 Member, Biobank Task Force
2011 – 2021 Member, Medical Board

Windsor Regional Hospital

2008 – 2011 Member, Research Ethics Board

KFSH & RC

1998 – 2007 Member, Bone Marrow Transplantation Committee
1998 – 2007 Member, Renal Transplantation Committee
1998 – 2007 Member, Performance Improvement Committee
1998 – 2007 Member, Performance Improvement Medical Team
1998 – 2007 Member, Editorial Board, Annals of Saudi Medicine Journal
1998 – 2007 Member, Research Advisory Council
1998 – 2007 Member, Basic Research Committee
1998 – 2007 Member, Strategic Planning for Clinical Services Committee
1998 – 2007 Member, Establishment of a Cell Therapy Center Taskforce
1998 – 2007 Member, Organ Transplantation Operational Review Taskforce
1998 – 2007 Chairman, Quality Improvement and Laboratory Utilization Committee
1998 – 2007 Chairman, Reference Send out Tests Committee
1998 – 2007 Chairman, GPPRR Committee
1998 – 2007 Member, Department Education Committee

SPECIAL COURSES

- 02 / 2006: Process Implementation & Optimization Program of Cord Blood Banking
Thermogenesis Corporation. Riyadh, Saudi Arabia
- 10 / 2005: Life Sciences Laboratory Information Management System (LIMS) Course.
Applied Biosystems. Riyadh, Saudi Arabia
- 09 / 2004: Human Identification and Genetic Fingerprinting Course.
Applied Biosystems. Manchester, UK
- 03 / 1997: Short course in Molecular Pathology
Annual meeting of the United States and Canadian Academy of Pathology, Orlando. Florida
- 03 / 1997: Long course in Molecular Pathology and Genetics Annual meeting of the United States and
Canadian Academy of Pathology. Orlando, Florida
- 10 / 1995: Concepts of Molecular Biology; American Society of Investigative Pathology. Bethesda, MD
- 10 / 1995: Concepts and Methods in Biostatistics, Department of Epidemiology and Biostatistics-
Cleveland Clinic Foundation. Cleveland, OH
- 06 / 1995: Advances in Autoimmune Testing Seminar. Sponsored by INCSTAR Corporation and
TheraTest laboratories. Cleveland Clinic Foundation. Cleveland, OH
- 09 / 1995: Recent Development in ANA Screening: Clinical Association with EIA Methods. Focus
Group on an EIA confirmation Algorithm. Sponsored by BIO-RAD labs. Chicago, IL
- 04 – 05 / 1993: Introductory Course in Molecular Biology Techniques
HBC&G Molecular Biology Laboratory. University of Texas Medical Branch at Galveston
- 01 – 04 / 1990: Special Training Course; Biostatistics, Research Methodology & Management of Health
Services Organizations. Graduate School-Jordan University

HONORS & ACTIVITIES:

- 2007: Plaque of Recognition for continued support to Renal Transplantation Program at KFSHRC
- 2007: Recognition as an Outstanding Inspector for the College of American Pathologists for 2006
- 2006: The Poster Award for Best Visual Presentation, 32nd Annual Meeting of ASHI
- 2003: Plaque of appreciation for continued support to Renal Transplantation Program at KFSHRC
- 2003: Plaque of appreciation for continued support to Stem Cell Transplantation Program, KFSHRC
- 1998: Award of Excellence in Diagnostic Molecular Pathology, Cleveland Clinic
- 1997: Finalist, Stowel-Orbinson Award (United States and Canada Academy of Pathology)
- 1996: Finalist, Stowel-Orbinson Award (United States and Canada Academy of Pathology)
- 1994: Award of Excellence in Pathology - University of Texas Medical Branch at Galveston
- 1993: Best Resident Researcher Award, Department of Pathology, University of Texas, Galveston
- 1980: 12th, Jordan, General Secondary Education Certificate Examination (Score: 97.2 %)

EDUCATIONAL EXPERIENCE:

- 2019 - 2021 Co-Director, Cancer Care Infomatics M.Sc Program
- 2012 - 2021: Annual Teaching Course, Basics of Molecular Oncology to members of the Department of Medicine at King Hussein Cancer Center
- 2008 - 2011: Teaching basic pathology to medical students
The Schulich School of Medicine & Dentistry, University of Western Ontario
- 2000 - 2006: Series of lectures to pathology residents at King Saud University
- 1999 - 2006: Series of Lectures for pathology residents at KFSH & RC
- 1994 -1998: Annual teaching and instructing rotating residents in Immunopathology at Cleveland Clinic Foundation, including didactic lectures
- 1990 - 1991: Teaching and instructing medical students, (Pathology Laboratory) - University of Texas Medical Branch at Galveston
- 1999 - 2006: Series of Didactic lectures in immunogenetics and transplantation immunology to Renal Transplant Program, Adult and Pediatrics Hematology Oncology Services
- 1999 - 2006 Health outreach visits, with series of presentations to Dammam, Qasim and Madina, KSA.
- 2008 - 2011 Teaching basic pathology to medical students
The Schulich School of Medicine & Dentistry, University of Western Ontario

SCIENTIFIC ACHIEVEMENTS:**GRANTS:**

1. Quantitative comparison of immunohistochemical staining intensity in tissue fixed in formalin and Histochoice. (*Amresco, Solon, OH, USA*)
2. HLA typing using DNA sequencing to establish HLA allele frequency in Saudi Arabia. (*KACST Grant*)
3. Enhancing the Immunogenicity of Low-Affinity HLA-A2 Wilms Tumor Restricted CTL Epitopes by Selective Amino Acid Replacements: Implication in the Generation of Effective Cancer Vaccines and Adaptive T lymphocyte Therapy in leukemias and Breast cancer in Saudi Population. (*KACST Grant*)
4. Study of the Relationship between the genetic Polymorphisms of the Natural Killer Cell Receptor (KIR) genes and the Outcome of the Hematopoietic Stem Cell Transplantation of Hematological Malignancies in Saudi Arabia. (*KACST Grant*)
5. Determination of Polymorphism(S) in Genes Controlling the Immune Responses in Saudi Renal Transplant Patients. (*KACST Grant*)
6. 13KHCC25, RB1 Gene Mutation Detection in Retinoblastoma Patients (KHCC intramural grant)
7. 15KHCC 99 Assessment of MYCN Amplification in Neuroblastoma: Comparative Analysis of Fluorescent In-Situ Hybridization (FISH) and Quantitative Polymerase Chain Reaction (KHCC intramural grant)
8. 15 KHCC 46 – “Identification of Hereditary (Familial) Breast Cancer Vulnerability Genes in Jordanian Patients Using the Whole Exome Sequencing (KHCC intramural grant)”
9. KHCC 101 “BRAFV600E Mutations in Papillary Thyroid Carcinoma: KHCC Experience” (KHCC intramural grant)
10. Grant/2018/04 – “Prophylactic HMA in AML and MDS after allogeneic Hematopoietic Stem Cell Transplantation. (co-investigator, KHCC intramural grant)”
11. Grant/2018/06 – “Investigating the Impact of Infused Hematopoietic Stem Cell (HSC) Subsets on Graft Failure in Non-Malignant Disorders. (co-investigator, KHCC intramural grant)”
12. Grant/2018/15 – “The MGMT (O6-methylguanine–DNA methyltransferase) methylation status as a potential predictive biomarker of clinical activity of salvage temozolomide and irinotecan in metastatic Ewing sarcoma. (co-investigator, KHCC intramural grant)”
13. 20 KHCC 74 – “Hydroxychloroquine in combination with Sirolimus and Dexamethasone for treating COVID-19 PatiEnts: A Pilot, Multicenter Randomized Open-Label Trial. (co-investigator, KHCC intramural grant)”
14. 20 KHCC 104 F - “Rectal Cancer Regrowth Genetic Profiling; Single Center Experience. (co-investigator, KHCC intramural grant)”
15. 20 KHC 67 – “A multicenter, open-label, pilot study on using Hydroxychloroquine (HCQ) and

Azithromycin (AZ) prophylaxis for Healthcare workers with a potential risk of exposure to COVID-19 patients – MOPHYDA. (co-investigator, KHCC intramural grant)”

16. 20 KHCC 74 – “Hydroxychloroquine in combination with Dexamethasone or Sirolimus for treating COVID-19 Patients: A Pilot, Multicenter Randomized Open-Label Trial (HOPE). (co-investigator, KHCC intramural grant)”
17. 20 KHCC 104 – “Rectal Cancer Regrowth Genetic Profiling; Single Center Experience”

ORIGINAL PAPERS:

1. **A.Tbakhi**, D. Cowan, D. Kumar and D. Kyle. Recurring phyllodes tumor in aberrant breast tissue of the vulva. *Am J Surg Pathol* 17(9): 946-950, 1993
2. T. Al-Jaberi, N. Al-Masri and **A. Tbakhi**. Adult rhabdomyosarcoma of the gall bladder: case report and review of the published works. *Gut* 35:854-856, 1994
3. **A.Tbakhi** and R.R. Tubbs. A commentary on laboratory practices in the reporting of flow cytometry phenotyping results for leukemia/lymphoma specimens: Results of a survey. *Communication in Clinical Cytometry* 22:230, 1995
4. D.F. Cowan, E. Orihuela, M. Motamedi, M. Pow-Sang, **A. Tbakhi**, and LaHaye. Histopathologic effects of Laser radiation on the human prostate. *Modern Pathology* 8:716-721, 1995
5. **A. Tbakhi** and R.R. Tubbs. Review of Surgical Pathology of the Lymph Nodes and Related Organs by E.S. Jaffe, second edition 1995. *Am J Clin Path* 104:106, 1995
6. **A. Tbakhi**, J.J. Sreenan, and R.R. Tubbs. Immunoglobulin V genes in Reed-Sternberg cells. A letter to the Editor. *New Eng J Med* 334:405, 1996
7. T. Ecker, **A. Tbakhi**, W.E. Braun, J.T. McMahon and R.R. Tubbs. De novo light-chain deposition disease (LCDD) in a cadaver renal allograft. *Am J Kid Dis* 28(3): 461-465, 1996
8. **A.Tbakhi**, J. Myles, M. Edinger and R.R. Tubbs: Three-color flow cytometric immunophenotyping analysis of non-Hodgkin's lymphomas and related disorder. Review. *Cytometry* 25(2): 113-124, 1996
9. **A. Tbakhi** and R.R. Tubbs. Utility of polymerase chain reaction (PCR) in detecting B-cell clonality in lymphoid neoplasms. Editorial. *Cancer* 77:1223-1225, 1996
10. **A. Tbakhi** and R.R. Tubbs. Review of Renal Disease: Classification and Atlas of Glomerular Diseases by J. Churg, J. Bernstein, and R.J. Glassock, second edition, 1995. *Arch Path lab Med* 121:653, 1997
11. J.J. Sreenan, **A. Tbakhi**, J.D. Pettay, L.M. Sandhaus, and R.R. Tubbs. The use of amplified variable number of Tandem Repeats (VNTR) in the detection of Chimerism following bone marrow ransplantation (BMT): A comparison with Restriction Length Polymorphism (RFLP). *Am J Clin Path* 107:292-298, 1997
12. J.J. Sreenan, **A. Tbakhi**, M. Edinger, R.R. Tubbs. The use of Isotypic Control Antibodies in the analysis of CD3+ and CD3+ CD4+ lymphocyte subsets by flow cytometry. Are they really necessary? *Arch Path Lab Med* 121:118-121, 1997
13. **A. Tbakhi** and R.R. Tubbs. Detection of bcr/abl translocation in Chronic Myelogenous Leukemia by Fluorescence In Situ Hybridization (FISH). *Medical Updates on Therapy, Diagnosis and Prevention* 1:10, 1997
14. D.G. Vince, **A. Tbakhi**, A. Gaddipati, R.M. Cothren, J.F. Cornhill, R.R.Tubbs. Quantitative comparison of immunohistochemical staining intensity in tissue fixed in formalin and histochoice. *Anal Cell Pathol* 15(2): 119-129, 1997

15. **A. Tbakhi** and R.R. Tubbs. Review of Extranodal lymphomas by P.G. Isaacson and A.J. Norton, first edition 1994. *Arch Path lab Med* 121:653, 1997
16. T. Smith, **A. Tbakhi**, and R. R. Tubbs. Angiotropic lymphoma, and the utility of polymerase chain reaction in detecting B-cell clonality. *ASCP Check Sample; No. MPAT 96-5 (MPAT-11)*, 1997
17. **A. Tbakhi**, J.J. Sreenan, J.D. Pettay, M. Kalaycioglu, G. Hoeltge, M.L. Miller, and R.R. Tubbs. A Comparative Analysis of Interphase Fluorescence In-Situ Hybridization (FISH) and Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) in the detection of the bcr/abl fusion gene in Chronic Myelogenous Leukemia (CML) and related disorders. *Am J Clin Path* 109:16-23, 1998
18. **A. Tbakhi**, G. Totos, J.D. Pettay, I. Zehbe, C. Hauser-Kronberger, D. Baunoch. G.W. Hacker, and R.R. Tubbs. Fixation conditions for DNA and RNA in situ hybridization. A reassessment of a morphologic dogma. *Am J Pathol* 152(1): 35-41, 1998
19. G. Totos, **A. Tbakhi**, C. Hauser-Kronberger, and R.R. Tubbs. Catalyzed Reporter Deposition: A New Era in Molecular and Immunomorphology- Nanogold-Silver Staining and Colorimetric Detection and Protocols. *Cell vision* 4(6): 433-441, 1998
20. **A. Tbakhi**, G.Totos, J.D, Pettay, J. Myles and R.R. Tubbs. The effect of fixation on detection of B-cell clonality by polymerase chain reaction. *Mod pathol* 12(3): 272-278, 1999
21. Tubbs, Raymond R. Totos, Grigorios. **A. Tbakhi**, Hauser-Kronberger, Cornelia. Catalyzed Reporter Deposition: A New Era in Molecular and Immunomorphology-Nanogold-Silver Staining and Colorimetric Detection and Protocols. *Applied Immunohistochemistry*. 7(1): 98, Spring/March 1999
22. **A. Tbakhi**, J. T. McMahon, V. Dennis, P. Sadasivan and R.R. Tubbs. Concomitant anti-GBM disease and lambda-light chain deposition disease. (*Unpublished*)
23. Ferrari S., Giliani S., Insalaco A., Al-Ghonaïum A., Soresina AR., Loubser M., Avanzini MA., Marconi M., Badolato R., Ugazio AG., Levy Y., Catalan N., Durandy A., **Tbakhi A.**, Notarangelo LD., Plebani A. Mutations of CD40 gene cause an autosomal recessive form of immunodeficiency with hyper IgM. *Proceedings of the National Academy of Sciences of the United States of America*. 98(22):12614-9, 2001 October 23
24. S. Coskun, **A. Tbakhi**, K. Jaroudi, M. Uzumcu, T. Merdad, J. Hollanders, and K. Hussein. Wet preparation, flow cytometric ploidy analysis and hisopathological examination for the testicular biopsies of azoospermic men. *Human Reproduction* 17(4):977-983, 2002
25. G. Totos, **A. Tbakhi**, J.D. Pettay, I. Zehbe, C. Hauser-Kronberger, D. Baunoch. G.W. Hacker, and R.R. Tubbs. Single gene detection by an automated in situ hybridization method (*Unpublished*)
26. **A. Tbakhi**, D. Cowan, D. Kumar and K. Crotty. Transitional cell carcinoma for an ileal conduit. An evidence of the pathogenesis. (*Unpublished*)
27. **A. Tbakhi**, K. Kottke-Marchant, N. B. Ratliff, and R. R. Tubbs. Pathogenesis of endocardial lymphocytic infiltrates (Quilty Effect) in cardiac transplant patients: Formulation of a hypothesis. (*Unpublished*)
28. Belgauni, **A. Tbakhi**, W. Mourad and M. Mustafa. NK-cell lymphoma in a child, treated with intensive chemotherapy and allogeneic bone marrow transplantation (*Unpublished*)

29. **A.Tbakhi** and M. Akhtar. The spectrum of glomerular disease in Saudi Arabia (*Unpublished*)
30. **A. Tbakhi**, M. Al-Awwami, M. Al-Harhi, W, Al-Damin, H. Al-Humaidan and M. Mustafa. Molecular HLA Class II typing by PCR-SSO and PCR-SSP: Comparative study using DNA extracted from blood, buccal swabs and saliva (*Unpublished*)
31. **A. Tbakhi** and M. Al-Awwami. Molecular HLA Typing Methods: An Overview. *Lab Medicine 1(2): 43-47, 2000*
32. **A. Tbakhi** and F- Rawwas. Normal Reference Ranges of Lymphocyte Subsets in Saudi Poulation. (*Unpublished*)
33. **A. Tbakhi**, M. Al-Kaff and A. Giffari. Normal Reference Ranges of serum proteins in Saudi Poulation. (*Unpublished*)
34. M. Al-Jurf, A. Ezzat, T. Oweideh and **A. Tbakhi**. Antigen and/ or Immunologically Derived Lymphoproliferative Disorders. *Annals of Oncology. 14:1595-1606, 2003*
35. Tarek M. Owaidah,MD, FRCPA, Fat-hiya M.Qurashi, MRCP, Randa M. Al Nounou, MD, FRCPA , Hazza Al Zahrani, MRCP, Abdulrahman Al Mussa, MD, **Abdelghani A. Tbakhi, MD, FCAP**, Saad Al Daama, MD, Nasser Elkum, PhD, George T. Roberts, MB, FRCPC. Single center review of clinicopathological characterization in 77 patients with positive lupus anticoagulant antibodies. *Hematology. 2003 Aug;8(4):249-57*
36. **A. Tbakhi**. Qualitative and quantitative monoitoring of residual disease in chronic myelogenous leukemia. *Histopathology 41(2): 2002, 83-87*
37. **A. Tbakhi**. Review of “New directions for cellular and organ transplantation” by Mutsuo sasaki et. al, and published by Elsevier Science. *Annals of Saudi Medicine 23:227, 2003*
38. **A. Tbakhi**. Review of “Color Atlas of Immunology “by Gerd-Rudiger Burmester and Antonio Pezzutto. Thieme, New York, 2003. *Annals of Saudi Medicine 24 (4): 2004, 310*
39. Hellani A, Coskun S, Benkhalifa M, **Tbakhi A**, Sakati N, Al-Odaib A, Ozand P. Multiple displacement amplification on single cell and possible PGD applications. *Mol Hum Reprod. 2004 Nov;10(11):847-52*
40. S. Aktar, I. Maghfoor, A. El-Weshi, M. Rahal, H. Humaidan and **A. Tbakhi**. Stem cell collection in patients with relapsed or refractory diffue large cell and Hodgkin’s lymphoma using ESHAP + G-CSF: King Faisal Specialist Hospital & Research Centre Experience. *International journal of Hematology- Oncology & Bone Marrow Transplantation (IJHOBMT) 1(3), 9-2, 2004*
41. Ayas M, Al-Jefri A, Al-Mahr M, Rifai S, Al-Seraihi A, **Tbakhi A**, Mustafa M, Khairy A, Moussa E, Iqbal A, Shalaby L, El-Solh H. Stem cell transplantation for patients with Fanconi anemia with low-dose cyclophosphamide and antithymocyte globulins without the use of radiation therapy. *Bone Marrow Transplant. 2005 Mar;35(5):463-6*
42. Hellani A, Coskun S, **Tbakhi A**, Al-Hassan S. Clinical application of multiple displacement amplification in preimplantation genetic diagnosis. *Reprod Biomed Online. 2005 Mar;10(3):376-80*
43. Al-Meshari K, Al-Shaibani K, Hamawi K, Al-Akash S, Raza S, **Tbakhi A**, Chaballout A, Ahmadi I, Al-

- Saghier M, Al-Jedai A, Mohamed Gel D, Al-Talhi M, Sharaf M. The Kidney Transplant Program at King Faisal Specialist Hospital and Research Center. *Clin Transpl.* 2005;:119-29
44. Hajeer AH, Issa S, Alaskar A, Abdullah K, Awad M, **Tbakhi A**, Alabdulkareem A. Neutrophils and lymphoid chimerism after adult living-related liver transplantation from a homozygous donor. *Transplant Proc.* 2005; 37(10):4386-8
 45. Bouchama, Abderrezak; Kwaasi, Arron; Mohanna, Falah Al; Eldali, Abdelmoniem; El-Sayed, Raafat; **Tbakhi, Abdelghani**; Al Zahrani, Ali; Roberts, George. Dexamethasone does not protect against the lethal effects of induced heatstroke in baboons: 129-T. *Critical Care Medicine, 33(12) Suppl: A140, December 2005*
 46. Akhtar S, **Tbakhi A**, Humaidan H, El Weshi A, Rahal M, Maghfoor I. ESHAP + fixed dose G-CSF as autologous peripheral blood stem cell mobilization regimen in patients with relapsed or refractory diffuse large cell and Hodgkin's lymphoma: a single institution result of 127 patients. *Bone Marrow Transplant.* 2006; 37(3):277
 47. Faris Q. Alenzi, Mohamed Salem, Iman El-Tounsi, Ayman M. Karkar and **Abdelghani Tbakhi**. Career preference among university's Faculty: Literature review. (*Unpublished*)
 48. A. Jubran, I. Maghfoor and **A. Tbakhi**. Post-Transplantation Lymphoproliferative disorder of the NK-Cell Type: A Case Report and Review of the Literature. (*Unpublished*)
 49. Mourad WA, Rawas F, Shoukri M, **Tbakhi A**, al Omari M, Tulbah A, Al Dayel A. Grading of follicular lymphoma using flow cytometry. *Annals of Saudi Medicine.* 2006;26(3):205-210
 50. Amr SS, **Tbakhi A**. Jabir ibn Hayyan. *Ann Saudi Med.* 2007 Jan-Feb;27(1):53-4
 51. Amr SS, **Tbakhi A**. Ibn Sina (Avicenna): the prince of physicians. *Ann Saudi Med.* 2007 Mar-Apr;27(2):134-5
 52. Bouchama A, Kwaasi A, Dehbi M, Al Mohanna F, Eldali A, El-Sayed R, **Tbakhi A**, Alzahrani AS, Roberts AG. Glucocorticoids do not protect against the lethal effects of experimental heatstroke in baboons. *Shock.* 2007 May;27(5):578-83
 53. Amr SS, **Tbakhi A**. Abu Al qasim Al zahrawi (albucahis): pioneer of modern surgery. *Ann Saudi Med.* 2007 May-Jun; 27(3):220-1
 54. Amr SS, **Tbakhi A**. Abu bakr Muhammad ibn zakariya Al razi (rhazes): philosopher, physician and alchemist. *Ann Saudi Med.* 2007 Jul-Aug; 27(4):305-7
 55. Amr SS. and **Tbakhi A**. Ibn Al-Nafis: Discoverer of the Pulmonary Circulation. *Ann Saudi Med* 2007; Sept-Oct;27(5): 385-387
 56. **Tbakhi A** and Amr SS... Ibn Al-Hytham: Father of Modern Optics. *Ann Saudi Med* 2007; Nov-Dec; 27(6):464-467
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101. Katharina Kleinschmidt¹, Josu de la Fuente², Jacques-Emmanuel Galimard³, Arnaud Dalassier³, Arjan Lankester⁴, Giorgio La Nasa⁵, Akif Yesilipek⁶, Jean-Hugues Dalle⁷, **Abdelghani Tbakhi**⁸, Yves Bertrand⁹, Xavier Poiré¹⁰, Gulsun Karasu¹¹, Gérard Michel¹², Despina Moshous¹³, Hakan Ozdogu¹⁴, Emel

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 103. Farah Alul, Rawad Rihani, Yazan Al-Othman, Anas Al Okaily, Osama Alsmadi and **Abdelghani Tbakhi**. A Novel Germline Mutation of the CALR gene (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan, March 26-28, 2020*)
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 109. Mahmoud Al-Masri, Tawfeeq Al Soubaki, Hani Alnajjar, **Abdelghani Tbakhi**, Hussam Haddad, Rafal Iskanderian, Enas Younes and Niveen Abdullah. BRAFV600E mutations in Papillary Thyroid Carcinoma: KHCC experience (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan, March 26-28, 2020*)
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111. Rula Al-Najjar, Shanta Sharma, Dua'A Muffarrej, Eman Khattab, Mohammad Ma'koseh, Khalid Halahleh, Hussam Abu Jazar, Mayada Shanap, Rawad Rihani, Hasan Hashem, Nilly Hussein, Anas Haroun and **Abdelghani Tbakhi**. Comparable efficacy of peripheral stem cell mobilization using biosimilar G-CSF Nivestim® to original Neupogen® in healthy donors (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan, March 26-28, 2020*)
112. Ahmad Abu Khader, Shanta Sharma, Laith Maharmeh and **Abdelghani Tbakhi**. Comparison of COBE Spectra and Spectra Optia Apheresis Systems for Granulocyte Collections from Healthy Donors (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan, March 26-28, 2020*)
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114. Saleh Khudirat, Nidal Almasri, Fareed Barakat, Nazmi Kamal, Maher Sughayer, Hind Shakah, Ghaidaa Abu Hantash and **Abdelghani Tbakhi**. Establishment of the King Hussein Cancer Center flow cytometry panel to detect minimal residual disease in B-lymphoblastic leukemia (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
115. Anas Al Okaily, Niveen Abdullah, Yazan Al-Othman, Walid Naser, Farah Alul, Iyad Sultan, Osama Alsmadi and **Abdelghani Tbakhi**. Evaluation of FLT3 ITDs detection in silico tools using PCR-based Benchmark datasets (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
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118. Mohammed Odeh, Asem Mansour, Iyad Sultan and **Abdelghani Tbakhi**. Formalising the Landing of the New Discipline of Cancer Care Informatics. The First Mile (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
119. Iyad Sultan, **Abdelghani Tbakhi**, Asem Mansour and Mohammed Odeh. Googling Trends for Cancer Showing Growing Demands for Arabic Content in the Arab World (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
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121. Walid Naser, Lama Abujamous, Abdelghani Tbakhi and Hikmat Abdel-Razeq. Optimization and

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122. Hasan Hashem, Rawad Rihani, Mayada Shanap, Eman Khattab, Nilly Hussein, Yazan Al-Othman, Osama Alsmadi, **Abdelghani Tbakhi** and Iyad Sultan. Outcomes of Haploidentical hematopoietic cell transplantation for nonmalignant disorders in Children at KHCC (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 123. Ahmad Abu Khader, Shanta Sharma, Laith Maharmeh and **Abdelghani Tbakhi**. Quality of Granulocyte Concentrates Collected for Adult Bone Marrow Transplanted Patients in King Hussein Cancer Center (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 124. Rawad Rihani, Tahani Sarrawi, Amal Bani Mustafa, Hasan Hashem, Mayada Shanap, Eman Khattab, Hussam Abu Jazar, Waleed Da'na, Mohammad Ma'koseh, Nilly Hussein, Khalid Halahleh, **Abdelghani Tbakhi** and Iyad Sultan. SECOND TUMORS FOLLOWING HEMATOPOIETIC STEM CELL TRANSPLANTATION: FIFTEEN YEARS' EXPERIENCE FROM KING HUSSEIN CANCER CENTER (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 125. Hasan Hashem, Dua'A Muffarrej, Rula Al-Najjar, Mayada Shanap, Eman Khattab, Rawad Rihani, **Abdelghani Tbakhi** and Iyad Sultan. Successful Treatment of Transplant Associated-Thrombotic Microangiopathy (TA-TMA) with Defibrotide (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 126. Osama Alsmadi, Iyad Sultan, Anas Al Okaily, Yazan Al-Othman, Walid Naser, Mohammad Owdeh, Hikmat Abdel-Razeq, Asem Mansour and **Abdelghani Tbakhi**. The First Jordanian Genome sequenced and analyzed: comparison to regional and global genomes (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 127. Iyad Sultan, Osama Alsmadi, Anas Al Okaily, Razan Abu Khashabeh, Walid Naser, Noveen Abdullah, Farah Alul, Kamal Alrabi, Lina Merei, Yazan Alothman, Nazmi Kamal, Farid Barakat, Nidal Almasri, Hasan Hashem, Rawad Rihani, Amal Abu Ghosh, Eman Khattab, Waleed Da'ana, Salwa Saadeh, Mohammed Ma'koseh, Husam Abu Jazar, Amal Al-omari, Maysa Al Hussaini, Rozan Al Far, Khalid Halahleh, Mayada Abu Shanap and **Abdelghani Tbakhi**. The Genomic Landscape of de-novo Acute Myeloid Leukemia Treated at KHCC (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 128. Osama Alsmadi, Suha Abu AllRub, Kamal Alrabi, Hussam Abu Jazar, Yazan Al-Othman and **Abdelghani Tbakhi**. Use of liquid biopsy in clinical practice at KHCC revisited: comparison between FFPE and cfDNA in depth (*Submitted to the First Biennial KHCC Research Conference. Dead Sea, Jordan, March 26-28, 2020*)
 129. Hasan Hashem, Dua'A Darabseh, Nilly Hussein, Rawad Rihani, Mayada Shanap, Eman Khattab, **Abdelghani Tbakhi** and Iyad Sultan. Very Low Day-100 and 1-year Transplant-related Mortality(TRM) in the Pediatric Hematopoietic Cell Transplantation Program at KHCC (*Submitted to the First Biennial KHCC Research Conference, Dead Sea, Jordan. March 26-28, 2020*)
 130. Hasan Hashem, Rawad Rihani, Mayada Shanap, Eman Khattab, Osama Alsmadi, Yazan Al-Othman, Iyad Sultan and **Abdelghani Tbakhi**. When Graft Failure is Curative for Beta-Thalassemia Major post

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131. Ali Bazarbachi, Ariane Boumendil, Hervé Finel, Irma Khvedelidze, Joanna Romejko-Jarosinska, Alina Tanase, Syed Akhtar, Tarek Ben Othman, **Abdelghani Tbakhi**, Boris Afanasyev, Jean Cheikh, Jorge Sierra, Zafer Gülbaz, Rose-Marie Hamladji, Muhlis Cem Ar, Didier Blaise, Gonzalo Gutiérrez García, Simona Sica, Kazimierz Halaburda, Aida Botelho Sousa, Bertram Glass, Steven Robinson, Silvia Montoto, Anna Sureda. Evolution of outcome over time for relapsed Hodgkin lymphoma after autologous stem cell transplant: improved survival for early relapse in recent years (Presented at 62nd ASH Annual Meeting and Exposition December 5-8, 2020, in San Diego, California)
132. Josu de la Fuente¹, Dirk-Jan Eikema², Paul Bosman³, Robert F. Wynn⁴, Miguel Angel Diaz⁵, Peter J. Shaw⁶, Amal AlSeraihy⁷, Muhlis Cem Ar⁸, Mohamed Bayoumy⁹, Dominique Bron¹⁰, Cristina Diaz de Heredia¹¹, Tobias Gedde-Dahl¹², Brenda E. Gibson¹³, John Gribben¹⁴, Rupert Handgretinger¹⁵, Tessa Kerre¹⁶, Vassiliki Kitra-Roussou¹⁷, Stig Lenhoff¹⁸, José M. Moraleda¹⁹, Antonio Perez Martinez²⁰, Rachel Protheroe²¹, Henrik Sengeloev²², **Abdelghani Tbakhi**²³, Joan Hendrik Veelken²⁴, Estelle Verburgh²⁵, Giuseppe Visani²⁶, Antonio Risitano²⁷, Carlo Dufour²⁸, Selim Corbacioglu²⁹, Régis Peffault de Latour³⁰. Transplantation for Congenital Sideroblastic Anaemia is Feasible and Offers Outcomes Comparable to Other Transfusion Dependent Anaemias. A joint retrospective study of the Paediatric Diseases and Severe Aplastic Anaemia Working Parties (PDWP/SAAWP) of EBMT. (*Submitted to the 62nd ASH Annual Meeting and Exposition December 5-8, 2020, in San Diego, California*)
133. Hadeel Halalsheh, **Abdelghani Tbakhi**, Khalil Ghandour, Iyad Sultan. Copy Number Variations (CNV) in relation to histologic response, prognosis, and gene expression among children with Wilms tumor. (*Submitted to the Biannual KHCC-AUB meeting, 2021*)
134. Sebastian Giebel, Myriam Labopin, Gerard Socié, Mahmoud Aljurf, Urpu Salmenniemi, Ibrahim Yakoub-Agha, Nicolaus Kröger, Mohsen Al Zahrani, Bruno Lioure, Péter Reményi, Mutlu Arat, Jean Henri Bourhis, Grzegorz Helbig, **Abdelghani Tbakhi**, Edouard Forcade, Hélène Labussière-Wallet, Anne Huynh, Eolia Brissot, Alexandros Spirydonidis, Bipin N. Savani, Zinaida Peric, Arnon Nagler, Mohamad Mohty. Higher efficacy of TBI + cyclophosphamide than TBI + fludarabine as conditioning prior to allogeneic hematopoietic cell transplantation for acute lymphoblastic leukemia: an analysis by the Acute Leukemia Working Party of the EBMT (*Presented at the ASH meeting, 2021*)
135. Joanna Drozd-Sokolowska, Luuk Gras, Nienke Zinger, Mohsen Al Zahrani, Jakob Passweg⁵, Jenny Byrne, Aloysius Ho, Xiao-jun Huang, Nicolaus Kröger, Jiri Mayer, Domenico Russo, Rik Schots, **Abdelghani Tbakhi**, Herve Tilly, Thomas Valerius, Patrick Hayden, Francesco Onida, Christof Scheid, Marie Robin, Ibrahim Yakoub-Agha. Allogeneic hematopoietic stem cell transplantation for myelodysplastic syndrome unclassifiable – a retrospective study on behalf of the Chronic Malignancies Working Party of the EBMT (*Presented at the EBMT meeting, 2022*)
136. G. Lucchini¹, A. Bertaina, JE. Galimard, RM. Hamladji, K. Kalwak, JH. Dalle, R. Protheroe, M Ayas, F. Locatelli, E. Skorobogatova, Y. Bertrand, J. Styczynski, **A Tbakhi**, P. Sedlacek, A. Balduzzi, M. Ifversen, A. Lankester, C. Jubert, A. Dalissier, P. Bader, S. Corbacioglu. Role of acute GvHD in paediatric patients undergoing allogeneic stem cell transplantation for acute myeloid leukaemia: an imperfect balance. (*Presented at the EBMT meeting, 2022*)
137. G. Lucchini, A. Bertaina, JE. Galimard, K. Kalwak, JH. Dalle, F. Locatelli, M. Taskinen, R. Protheroe, P.

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138. Su Han Lum, Sujith Samarasinghe, Dirk-Jan Eikema, Brian Piepenbroek, Arnaud Dalissier, Mouhab Ayas, Ashrafsadat Mousavi, Rose-Marie Hamladji, Akif Yesilipek, Jean-Hugues Dalle, Savas Kansoy, Fanco Locatelli, Duygu Uckan-Cetinkaya, Marc Bierings, Aphan Kupesiz1, **Abdelghani Tbakhi**, Elena Skorobogatova, Gülyüz Öztürk, Maura Faraci, Yves Bertrand, Pamela Evans, Selam Corbacioglu, Antonio Resitano, Robert Wynn, Régis Peffault de Latour. Outcome of haematopoietic cell transplantation in 813 children with Fanconi anaemia: A study on behalf of the EBMT Severe Aplastic Anaemia Working Party and Paediatric Disease Working Party. (*Presented at the EBMT meeting, 2022*)
139. Hikmat Abdel-Razeq,¹ **Abdelghani Tbakhi**,¹ Ramiz Abu Hijlih¹, Lama Abujamous,¹ Mahmoud Al- Masri,¹ Razan Abukhashabeh,¹ Asia Mitchell,² Brandie Heald,² Sarah M. Nielsen,² Robert L. Nussbaum, MD,² Edward D. Esplin, MD, PhD². Implementation of Universal, Pan-Cancer Germline Genetic Testing in Cancer Patients in Jordan (*Presented at the ASCO meeting, 2022*)
140. Akshay Sharma¹, Jacques-Emmanuel Galimard², Angharad Pryce³, Senthil Bhoopalan¹, Arnaud Dalissier⁴, Jean-Hugues Dalle⁵, Franco Locatelli⁶, Charlotte Jubert⁷, Rachel Protheroe⁸, Vassiliki Kitra-Roussou⁹, Yves Bertrand¹⁰, Franca Fagioli¹¹, Patrice Chevallier¹², Alessandra Biffi¹³, Robert F. Wynn¹⁴, Gérard Michel¹⁵, Francesco Paolo Tambaro¹⁶, Mouhab Ayas¹⁷, **Abdelghani Tbakhi**¹⁸, Emma Nicholson¹⁹, Miguel Angel Diaz²⁰, Petr Sedlacek²¹, Ivana Bodova²², Maura Faraci²³, Kanchan Rao²⁴, Marie Thérèse Rubio²⁵, Brenda Gibson²⁶, Neel Bhatt²⁷, Selim Corbacioglu²⁸. Specific Cytogenetic Abnormalities at Diagnosis Predict Survival after Hematopoietic Cell Transplant in Poor-Risk Pediatric Acute Myeloid Leukemia: a PDWP/EBMT study (**Abstract #162596**. *To be presented at the ASH meeting, 2022*)
141. 1E Ince, 2JE Galimard, 3M Ifversen, 4A Dalissier, 5Z Szmit, 6F Locatelli, 7R Protheroe, 8P Sedlacek, 9JH Dalle, 10M Ayas, 11RM Hamladji, 12A Biondi, 13J Styczynski, 14Y Bertrand, 15E Skorobogatova, **16A Tbakhi**, 17K. Kielsen, 18V Kitra-Roussou, 19F Fagioli, 20W Holter, 21B Burkhardt, 22M Aljurf, 23M Taskinen, 24M Bierings, 25R Meisel, 26S Cesaro, 27K Kalwak, 28S Corbacioglu. Impact of donor and patient CMV serology in children receiving first geno-identical or unrelated HSCT for malignant hematological disease, a PDWP/EBMT retrospective study (**Abstract #164538**. *To be presented at the ASH meeting, 2022*)
142. Stefano Giardino¹, Dirk-Jan Eikema², Brian Piepenbroek³, Franco Locatelli⁴, Mouhab Ayas⁵, Maura Faraci¹, **Abdelghani Tbakhi**⁶, Marco Zecca⁷, Mohsen Al Zahrani⁸, Bénédicte Neven⁹, Yves Bertrand¹⁰, Gaurav Kharya¹¹, Aleksandr Kulagin¹², Sarah Lawson¹³, Mario Petrini¹⁴, Joan Hendrik Veelken¹⁵, Patrice Chevallier¹⁶, Jennifer Clay¹⁷, Anca Colita¹⁸, Jean-Hugues Dalle¹⁹, Simone Cesaro²⁰, Elisa Sala²¹, Carlo Dufour¹, Antonio Risitano²², Régis Peffault de Latour²³. Haploidentical stem cell transplantation in children with inherited bone marrow failure syndromes: a retrospective analysis on behalf of the EBMT Severe Aplastic Anemia Working Party (**Abstract #163219**. *To be presented at the ASH meeting, 2022*)
143. Su Han Lum¹, Sujith Samarasinghe², Dirk-Jan Eikema³, Brian Piepenbroek⁴, Arnaud Dalissier⁵, Mouhab Ayas⁶, Ashrafsadat Mousavi⁷, Rose-Marie Hamladji⁸, Akif Yesilipek⁹, Jean-Hugues Dalle¹⁰, Savas Kansoy¹¹, Fanco Locatelli¹², Duygu Uckan-Cetinkaya¹³, Marc Bierings¹⁴, Aphan Kupesiz¹⁵,

- Abdelghani Tbakhi**¹⁶, Elena Skorobogatova¹⁷, Gülyüz Öztürk¹⁸, Maura Faraci¹⁹, Yves Bertrand²⁰, Pamela Evans²¹, Selam Corbacioglu²², Antonio Risitano²³, Robert Wynn²⁴, Régis Peffault de Latour²⁵. Outcome of Haematopoietic Cell Transplantation in 813 Children with Fanconi Anaemia: A Study on behalf of the EBMT Severe Aplastic Anaemia Working Party and Paediatric Disease Working Party (**Abstract #163140**. *To be presented at the ASH meeting, 2022*)
144. Osama Al-Smadi, Asem Mansour, Hikmat Abdel-Razeq, Anas Al-Okaily, Mohammad Odeh, Iyad Sultan, **Abdelghani Tbakhi**. First Jordanian Genome Assembled and Annotated: A Step toward Joining Regional and Global Initiatives. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
145. Osama Al-Smadi, Hikmat Abdel-Razeq, Yazan Ahmad, Hazem Abdulelah, Zeena Shaheen, Iyad Sultan, **Abdelghani Tbakhi**. Pik3ca Mutational Profiling In a Patient Cohort with Hr+/Her2- Advanced Metastatic Breast Cancer at a Tertiary Cancer Center. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
146. Osama Al-Smadi, Suha Abu Alrub, Kamal Al-Rabi, Sammer Yaser, **Abdelghani Tbakhi**. Validating and Implementing Liquid Biopsy Service in KHCC. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
147. Ruba Alabweh, Fareed Barakat, Osama Al-Smadi, Ala' Hejazi, Nabil Hasashna, Nidal Al-Masri, Nazmi Kamal, Bayan Maraqa, Yazan Ahmad, Hind Alshakah, **Abdelghani Tbakhi**. A Comparison Between The Unique Cytogenetic Features Of Positive And Negative CD371 Acute Lymphoblastic Leukemia Cases At KHCC. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
148. Anas Al-Okaily, **Abdelghani Tbakhi**. Linear Approximate Pattern Matching Algorithm. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
149. Anas Al-Okaily, Razan Abu Khashabeh, Osama Al-Smadi, Iyad Sultan, Yazan Ahmad, Pramod Srivastava, **Abdelghani Tbakhi**. Eramer: A Novel in Silico Tool for Prediction of Erap1 Enzyme Trimming. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
150. Saleh Khudirat, Nidal Al-Masri, Fareed Barakat, Nazmi Kamal, Maher Al-Sughayer, Osama Al-Smadi, Hind Shakah, Ghaida Abu Hantash, Ala Al-Whaidi, **Abdelghani Tbakhi**. Establishment of the King Hussein Cancer Center Flow Cytometry Panel to Detect Minimal Residual Disease in B-Lymphoblastic Leukemia. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
151. Yazan Talab, Osama Al-Smadi, Iyad Sultan, Alia Iqniebi, **Abdelghani Tbakhi**. Seroconversion Assessment in Response to SARS-Cov-2 Vaccination in a Healthy Jordanian Cohort. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)
152. Anas Al-Okaily, Walid Naser, Farah Alul, Yazan Ahmad, Ruba Alabweh, Osama Al-Smadi, **Abdelghani Tbakhi**. Evaluation of FLT3-ITDs Detection by NGS Data and In Silico Tools Using PCR-Based Benchmark Datasets. (*Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan*)

153. Mohammad Alqudah, Ayah Alsmadi, Osama Al-Smadi, Iyad Sultan, Ghenah Kaskas, Judy Alnoubani, Leen Ammari, Zaen Khresat, Haya Al Najjar. **Abdelghani Tbakhi**. Mutated SMARCA4 with or without EGFR+ and/or KRAS+ Lung Adenocarcinoma Patients is associated with a Worsened Prognosis and Overall Survival. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
154. Yacoub Yousef, **Abdelghani Tbakhi**, Maysa Al-Hussaini, Ibrahim AlNawaiseh, Mona Mohammad, Imad Jaradat Mustafa Mehyar, Iyad Sultan, Yacoub Yousef. Mutational Analysis of the RB1 Gene in Patients with Unilateral Non-Familial Retinoblastoma. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
155. Hasan Hashem, Rawad Rihani, Mayada Abu Shanap, Eman Khattab, **Abdelghani Tbakhi**, Iyad Sultan. Safety of Allogeneic Hematopoietic Cell Transplantation in Children after CD19-targeted CAR T-Cell Therapy: First 3 Patients treated at KHCC. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
156. Samer Salah, Walid Naser, Omar Jaber, Yacoub Saleh, Rawan Mustafa, Ramiz Abuhijlih, Fawzi Abuhijla, Taleb Ismail, Sameer Yaser, Iyad Sultan, Noor Mustafa, **Abdelghani Tbakhi**. Safety of Allogeneic Hematopoietic Cell Transplantation in Children after CD19-targeted CAR T-Cell Therapy: First 3 Patients treated at KHCC. (presented at the KHCC Research Conference, November 10-12, 2022 – Amman, Jordan)
157. Ramiz Abu-Hijlih, Lina Wahbeh, Fawzi Abu Hijla, Mohamed Qamber, Mohammad Mukahal, Issa Mohamed, Omar Jaber, **Abdelghani Tbakhi**, Maher Sughayer, Wafa Asha, Samer Salah, Abdelatif Almousa. Discordance Of Histopathological Diagnosis Of Patients With Sarcoma Referred To A Tertiary Cancer Center: Assessment In The Era Of Ancillary Molecular Diagnosis. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
158. Hasan Hashem, Eman Khattab, Rawad Rihani, Mayada Abu Shanap, **Abdelghani Tbakhi**, Iyad Sultan. Outcomes of Hematopoietic Cell Transplantation in Children with Inborn Errors of Immunity at KHCC. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
159. Sawsan Mubarak, Asem Mansour, Hikmat Abdel-Razeq, Osama Abu Ata, **Abdelghani Tbakhi**, Osama Al-Smadi, Hadeel Al Ghawrie,. Impact of SARS-Cov2 Pandemic on Influenza Infection and the Overall Respiratory Viruses' Transmission in a Cancer Care Setting. (Presented at the KHCC Research Conference, November 10-12, 2022 – Amman, Jordan)
160. Fareed Barakat, Osama Al-Smadi, Saleh Khudirat, Nabil Hasasna, Nidal Al-Masri, Nazmi Kamal, Bayan Maraqa, Yazan Ahmad, Hind Alshakah, **Abdelghani Tbakhi**. Flow Cytometric Signature Of CD371 Positive And CD371 Negative Acute Lymphoblastic Leukemia Cases At KHCC. (Presented at the KHCC Research Conference, November 10-12, 2022 – Amman, Jordan)
161. Hikmat Abdel-Razeq, **Abdelghani Tbakhi**, Ramiz Abu Hijlih, Lama Abujamous, Mahmoud Al-Masri, Razan Abu Khashabeh, Asia Mitchell, Brandie Heald, Sarah Nielsen, Robert Nussbaum, Edward Esplin. Implementation of Universal, Pan-Cancer Germline Genetic Testing In Patients with Cancer in Jordan. (Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)
162. Rawad Rihani, Mayada Abu Shanap, Hasan Hashem, Eman Khattab, **Abdelghani Tbakhi**, Iyad Sultan. Second Tumors Following Hematopoietic Stem Cell Transplantation: Fifteen Years' Experience from

- King Hussein Cancer Center. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
163. Rawad Rihani, Abeer Natsheh, Hasan Hashem, Mayada Abu Shanap, Eman Khattab, **Abdelghani Tbakhi**, Iyad Sultan. Features and Outcomes of Stem Cell Transplantation for Children and Young Adults with Thalassemia Major: A Risk Adaptive Approach at King Hussein Cancer Center. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 164. Walid Naser, Baha'Eddin Muhsen, Maysa Al-Hussaini, Rawan Abu Aboud, Mahmoud Al Masri, Rula Amarin, Dima Abu Laban, **Abdelghani Tbakhi**. MGMT Promoter Methylation And IDH1 Mutation Testing To Prognosticate Glioblastoma Multiform And Determine Alkylating Agent Treatment Eligibility: KHCC Experience. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 165. Khalid Halahleh, **Abdelghani Tbakhi**, Ebtisam Dannoun, Eman Alnaimi, Iyad Sultan. Survival Outcomes of 121 AML Patients According To ELN AML 2022 Classification from Jordan: Retrospective Single Center Analysis. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 166. Mahmoud Almasri, Walid Naser, Mazim Alashhabl, Anas Okaily, Osama Al-Smadi, Iyad Sultan, **Abdelghani Tbakhi**. Genomic Landscape of Rectal Cancer Regrowth. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 167. Mayada Abu Shanap, Iyad Sultan, Razan Abu Khashabeh, **Abdelghani Tbakhi**. A Sample Of 197 Patients From The Pediatric Genetic Clinic At King Hussein Cancer Center Represents An Underrepresentation Of Genomic Data From Middles East/Arab Ancestry. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 168. Sawsan Mubarak, Asem Mansour, Hikmat Abdel-Razeq, Osama Abu Ata, **Abdelghani Tbakhi**, Osama Al-Smadi, Hadeel Al Ghawrie. Characteristics and Outcomes of COVID-19 Infection among Patients with Cancer in a Developing Country: Case Study in Jordan. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 169. Iyad Sultan, Khaled Jamal, Imad Treish, **Abdelghani Tbakhi**, Amal Omar. ESTABLISHING A Flexible Dashboard for Khcc Cancer Registry (KHCC-Flexdashboard) With a Dynamic Example from Adolescents and Young Adults with Bone Sarcomas. *(Presented at the King Hussein Cancer Conference, November 11-13, 2022 – Amman, Jordan)*
 170. H Abdel-Razeq, SM Nielsen, **A Tbakhi**, H Bani Hani, B Sharaf, Implementation of universal pan-cancer germline genetic testing in an Arab population: The Jordanian exploratory cancer genetics (Jo-ECAG) study *Journal of Clinical Oncology* 41 (16_suppl), 10591-10591
 171. Mayada Abu Shanap, Haytham Al Jabour, Rawad Rihani, Hasan Hashem, Amal Abu Ghosh, **Abdelghani Tbakhi**, Nazmi Kamal, Iyad Sultan, Faris Madanat. Early post-induction augmented therapy improves outcome in children and adolescents with T-cell acute lymphoblastic leukemia. *Cancer Reports*, 2023

SUPERVISING M.Sc. CANCER CARE INFORMATICS THESES / POTENTIAL PUBLICATIONS:

1. Atwa, Eyad et al. A Framework for Improving Sanger Sequencing Using BPMN Workflow Modelling Applied to Pediatric Hematological Malignancies and Disorders
2. Atwa, Eyad et al. A Process-driven Framework for Informing the Governance of Sanger Sequencing Applied to Pediatric Haemtolgical Malignancies and Disorders
3. Al-Balas, Mahmoud et al. A Hybrid Goal-Oriented Framework to Inform the QoL of Breast Cancer Patients Using the EORTC, FACiTsp Questionnaire Models
4. Al-Balas, Mahmoud et al. An EORTC and FACiTsp based QoL Social Network Modelling of Breast

Cancer Patients in Jordan

5. Elhaj, Shaima et al. Modelling and Automation of Blood Banking and Transfusion Services Processes: A Systematic Mapping Literature Review
6. Elhaj, Shaima et al. A Novel Process Architectural Framework for Blood Banking and Transfusion Applied in Jordan and in Cancer Care Context
7. Daboor, Mohammad, et al. A Data-Driven Behavioural Framework for Characterizing Hospital Acquired Infections Applied to Blood Cancer Patients: The Case of King Hussain Cancer Center
8. Daboor, Mohammad, et al. Data and Process Driven Framework for Predicting the CLABSI Hospital Acquired Infection Applied to Blood Cancer Patients: The Case of King Hussain Cancer Center
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13. Abukhashabeh, Razan et al. CPS.HPO: A Knowledge-Engineering Framework to Extend the HP Ontology (HPO) with the Ontology of the Cancer Predisposition Syndromes (CPS)
14. Abukhashabeh, Razan et al. CPS.HPO.DSS: HP Ontology-based Rule-based Decision Support System to Automate the Diagnosis of Cancer Predisposition Syndromes (CPS)
15. Abukhashabeh, Razan et al. Assessing the effectiveness of the CPS.HPO.RDSS (HP Ontology-based Rule-based Decision Support System) Compared to LIRICAL (Phenotype-driven Prioritization of Candidate Diseases and Genes Tool)
16. Jazairy, Enas et al. JCI-based Process Architecture for Blueprinting the Access and Continuity of Cancer Care Processes Applied in a Designated JCI Accredited Cancer Center
17. Jazairy, Enas et al. Can JCI-based Process Architecture for Access and Continuity of Cancer facilitate Informed Bridging the Gap between Cancer Care Processes and Cancer care Information Systems of Designated JCI Accredited Cancer Centers?
18. Mutlaq, Sawsan et al. A Novel Process Architectural Framework for Breast Diagnostic Imaging Applied: King Hussain Cancer Center as a Case Study
19. Mutlaq, Sawsan et al. The Role of Process Architecture in the Governance of Breast Diagnostic Imaging Applied in Cancer Care Context
20. Al-Barawi, Aysheh et al. A Workflow Management System for the Automation of ICU Operations in a

Designated JCI Accredited Cancer Center

RESEARCH ADVISORY COUNCIL (RAC) AND RC/IRB APPROVED PROJECTS

1. **RAC# 2031008.** Retrospective Evaluation of ESHAP Chemotherapy as a Peripheral Blood Progenitor cells Mobilization Regimen in Patients with Non Hodgkins Lymphoma and Hodgkins Lymphoma.
2. **RAC # 2020138.** Antigen and or Immune Driven Lymphoproliferative Disorders.
3. **RAC # 2040111.** Prediction of HLA-DR3 Binding Peptides from the WT1 Antigen and Demonstration of CD4+ Specific T Cells of Some Peptides Loaded –Dendritic Cells.
4. **RAC # 2040134.** Expression of the Wilms Tumor (WT1) Gene in Saudi Leukemia Patients and its Use as a Potential Target for Immunotherapy of Cancer.
5. **RAC # 2011017.** Protein Expression of OSP in-Paitnets Suffered of Non-Obstructive Azoospermia.
6. **RAC # 2030006.** Use of Human Dendritic Cells as Potential Adjuvant for Generation of Specific Immune Responses to the Tumor Associated Antigen Wilms Tumor (WT1) in the Saudi and Middle East Populations.
7. **RAC # 2030022.** Evaluation of Anti-Tumor Activity of $\gamma\delta$ T Cells in Cancer Patients.
8. **RAC # 2031022.** Islet Cell Transplantation: Collaboration between Geneva University Hospital and King Faisal Specialist Hospital & Research Center (Following Edmonton Protocol).
9. **RAC # 2031091.** Identification of Environmental and Genetic Factors that Influence Breast Cancer Development and Therapy in Saudi Females.
10. **RAC # 2041081.** Determination of Polymorphism(S) in Genes Controlling the Immune Responses in Saudi Renal Transplant Patients.
11. **RAC # 2040038.** Enhancing the Immunogenicity of Low-Affinity HLA-A2 Wilms Tumor - Restricted CTL Epitopes by Selective Amino Acid Replacements: Implication in the Generation of Effective Cancer Vaccines and Adoptive T Lumphocyte Therapy in Leukaemias and Breasts.
12. **RAC # 2050009.** A Molecular Look on Early Infantile Primary Lactic Acidosis: Pilot Study.
13. **RAC # 2050013.** L2OH Glutanic Acidemia, Clinical, Biochemical, and Molecular Analysis in a Large Family.
14. **RAC # 2050018.** Genetic Mapping and Characterization of Non-Syndromic X - Linked Mental Retardation in Saudi Families.
15. **RAC # 2050021.** Clinical, Biochemical, and Molecular Profiles of Saudi Patients with Dihydropyrimidine Dehydrogenase Deficiency.
16. **RAC # 2051001.** Study of the Relationship between the genetic Polymorphisms of the Natural Killer Cell Receptor (KIR) genes and the Outcome of the Hematopoietic Stem Cell Transplantation of Hematological Malignancies in Saudi Arabia.
17. **RAC# 2011070.** Laboratory Reference Interval Validation Studies in Inhabitants of Saudi Arabia

18. **RAC# 2031054.** A Randomized, Open-Label, Comparative Evaluation of Conversion from Calcineurin Inhibitors to Sirolimus versus Continued use of Calcineurin Inhibitors in Renal Allograft Recipients
19. **RAC# 2001044.** Autologous Peripherals Blood Stem Cell Transplantation with In Vivo Purging as an Alternate Stem Cell Transplantation Program for Patients with Acute Myelogenous Leukemia in First (CR1) and Second (CR2) Complete Remission with no HLA Matched Related Donor.
20. Muna Al Qassem-MD, Randa Al Nounou, MD-FRCPA-FKSU-Path, **Abdelghani Tbakhi-MD-FCAP**, Ahmed Mansoor, Rasheed Nasr, Morad Al Kaff, Abdulrahman Al Gifari. Comparison between Particle Gel Immunoassay and Enzyme- Linked Immunosorbent Assay for the Detection of Heparin Induced Thrombocytopenia (HIT).
21. Mohammad Hijazi-MD, Hazzaa Al-Zahrani, Othman Solaiman-MD, Mohammed Al Sheet-MD, Randa Al Nounou-MD, Morad Al Kaff, **Abdelghani Tbakhi-MD**, Abdulrahman Al Gifari. Heparin Induced Thrombocytopenia (Hit): 10 years Experience in KFSH&RC.
22. **RAC# 2061051.** Neurological manifestations of the antiphospholipid syndrome in children and adolescents.
23. Rituximab in Autologous Stem Cell Transplant in Aggressive NHL.
24. A prospective randomized trial of marrow versus Filgrastim-mobilized peripheral progenitor cells in HLA-matched related allogeneic transplants treated with short-course methotrexate and cyclosporin as prophylaxis for acute graft-versus-host disease.
25. Autologous peripheral blood stem cell transplantation with in vivo purging as an alternative stem cell transplantation program for patients with acute myelogenous leukemia in first and second complete remission with no HLA matched related donor.
26. Induction of mixed hematopoietic chimerism in patients using Fludarabine, low dose TBI, PBSC infusion and post-transplant immunosuppression with Cyclosporine and Mycophenolated Mofetil.
27. Platelet-associated antibodies detection by flow cytometry: A comparison between separated and whole blood methods.
28. Two-color vs. three-color flow cytometric crossmatch for renal transplant patients: A comparison using three different parameters.
29. Immunologic reconstitution after bone marrow transplantation for patients with severe combined immunodeficiency.
30. KHCC 42. “An open-label, multi-center, Expanded Treatment Protocol (ETP) of oral LDK378 in adult patients with non-small cell lung cancer (NSCLC) characterized by ALK positivity”.
31. KHCC 40. “Indolent Lymphomas: Clinical Behavior and Treatment Outcomes in a Developing Country”.
32. KHCC 68. “High-Dose Therapy and Autologous Hematopoietic Progenitor Cells Transplantation for Recurrent or Refractory Hodgkin’s Lymphoma: King Hussein Cancer Center experience, follow up study”.

33. KHCC 89. “Review: Bone Marrow and Stem Cell Transplantation at King Hussein Cancer Center.
34. 15KHCC 99 - “Assessment of MYCN Amplification in Neuroblastoma: Comparative Analysis of Fluorescent In-Situ Hybridization (FISH) and Quantitative Polymerase Chain Reaction (QPCR)”.
35. 19-KHCC-21 - “Toward Building a Regional Genomic Database for KHCC”
36. 19-KHCC-22 - “Establishing a Thalassemia and Sickle Cell Anemia Genetic Testing for KHCC”
37. 19-KHCC-23 - “Developing a DNA-Based Microbial Identification Tool for Infection Control at KHCC”
38. 19-KHCC-27 - “The MGMT (O6-methylguanine–DNA methyltransferase) methylation status as a potential predictive biomarker of clinical activity of salvage temozolomide and irinotecan in metastatic Ewing sarcoma”
39. 19-KHCC-52 - “Genetic Determinants of Non BRCA-linked Familial Breast Cancer”
40. 19-KHCC-82 - “Defibrotide for Sinusoidal Obstruction Syndrome/Veno Occlusive Disease treatment in adult and pediatric population: A Single-Center Experience Study”
41. 19-KHCC-98 – “Validation and refining of the CancerSEEK diagnostic blood test in a cohort of Arab cancer patients”
42. 19-KHCC-108 – “Bifocal, anaplastic cerebellar liponeurocytoma with ABL1-L292M”
43. 19-KHCC-142 – “Myeloid Neoplasm Genomic Landscape of patients attending KHCC:A gateway for further clinical & Molecular Assessment and Characterization”
44. 20 KHCC 36 - “Establishment of the King Hussein Cancer Center flow cytometry panel to detect minimal residual disease in B-lymphoblastic leukemia”
45. 20 KHCC 74 – “Hydroxychloroquine in combination with Sirolimus and Dexamethasone for treating COVID-19 Patients: A Pilot, Multicenter Randomized Open-Label Trial”
46. 20 KHCC 81 - “Identification of novel biomarkers for breast cancer in Arab population”
47. 20 KHCC 104 F - “Rectal Cancer Regrowth Genetic Profiling; Single Center Experience”