

MALAK S. ABEDALTHAGAFI
CURRICULUM VITAE

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Title(s) Director of the General Directorate for National RDI coordination
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King Abdulaziz City for Science and Technology (KACST)
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Riyadh 12354, Saudi Arabia

Satellite Research Administration Director
Chairperson of Genomic Research Department
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SUMMARY

I am a management executive and clinician scientist with a heartfelt ambition to improve the care given to the thousands of people around the world afflicted with genomics and genetics related diseases. In my daily work as a practicing molecular genetics pathologist and neuropathologist, I am deeply involved in the care of patients and their families – both in practical medical terms – through cutting edge research aimed at improving the diagnosis and treatment of tumors and rare diseases– and in public outreach and education via various media platforms. My ultimate goal is to improve the application of personalized medicine and targeted therapy in the clinical management of our patients.

As a scientific executive, I apply functions such as planning, implementing public policies, organizing, balancing, managing, coordinating, responding to crisis, and collaborating with the government, private sectors, and national and international scientific communities.

Over the past decade, my education and experiences in some of America’s leading medical and research centers have inspired and prepared me for an ambitious but achievable goal – to overall improve the performance of Healthcare, Research, Development, and Innovations in KSA and beyond.

EDUCATION

09/99-08/05	Medicine (MBBS-MD) King Abdul Aziz University, Jeddah, Saudi Arabia
07/07-10/07	Executive Certificate, Business of Medicine Johns Hopkins University Carey Business School, Baltimore, MD
07/07-05/10	MBA (Medical Management Services) Johns Hopkins University Carey Business School, Baltimore, MD
05/21	Executive Certificate, Public Policy Certificate Harvard Kennedy School, Cambridge, MA

CONTINUING EDUCATION

06/2021	Certificate, Implementing Public Policy executive program Harvard Kennedy School, Cambridge, MA
06/ 2021	Certificate, Creating Collaborative Solutions program, executive program Harvard Kennedy School, Cambridge, MA
05/2021	Certificate, Public Private Partnerships for Infrastructure executive program Harvard Kennedy School, Cambridge, MA

12/20	Certificate, Qiyadat Global-Georgetown A Women's Leadership Program Georgetown. University, Washington DC
06/20	Certificate, Accelerating Biotech and Pharmaceutical R&D through Genomics Harvard Medical School, Boston, MA
06/19	Certificate, Functional Genomics and Drug Discovery Certificate Harvard Business School, Boston, MA
09/18	Certificate, Accelerating Innovation in Precision Medicine Harvard Business School, Boston, MA
06/18	Certificate, Emerging Women Executives in Healthcare Harvard T.C. CHAN School of Public Health, Boston, MA
05/18	Certificate, Corporate Performance Management for Healthcare Executives King Fahad Medical City, Riyadh, Saudi Arabia

POSTDOCTORAL TRAINING

09/18-10/18	Visiting physician, Cancer Genetics Clinic Center for Cancer Genetics and Prevention, Dana-Farber Cancer Institute, Boston, MA
09/14-09/15	Postdoctoral fellow, Cancer biology with Dr. Sandro Santagata, Brigham and Women's Hospital-DFCI, Boston, MA
01/15-09/15	Postdoctoral fellow, Medical oncology with Dr. Keith Ligon, Dana Farber Cancer Institute (DFCI), Boston, MA
07/13-06/16	Fellow, Neuropathology Harvard Medical School/Longwood Program, Boston, MA
07/12-06/13	Fellow, Molecular Genetics Pathology University of California, San Francisco, CA
11/11	Visiting clinical rotation, Hematopathology Stanford University School of Medicine, Palo Alto, CA
07/11-06/12	Fellow, Surgical Pathology University of California, San Francisco, CA
08/10	Visiting clinical rotation, Dermatopathology Ackerman's Academy of Dermatopathology, New York City, NY
03/10	Visiting clinical rotation, Soft Tissue Division Armed Forces Institute of Pathology, Washington D.C.
07/07-06/11	Resident, Anatomical and Clinical Pathology Georgetown University Hospital, Washington D.C.
01/06-06/07	Research Scholar, Pathology Tufts New England Medical Center, Boston, MA
10/04-10/05	Internship, Medicine/Surgery/Pediatric/ED/OB-GYN

King Fahad Armed Forces & King Fahad Armed Forces General Hospital
Jeddah, Saudi Arabia

ACADEMIC FACULTY APPOINTMENTS

05/2020-present Associate research professor
King Abdulaziz City of Science and Technology, Riyadh, Saudi Arabia

04/2020-Present Adjunct associate Professor, Molecular and Human Genetics, Baylor
Collage of Medicine, Houston, USA

01/2016-05/2020 Assistant research professor
King Abdulaziz City of Science and Technology, Riyadh, Saudi Arabia

07/15-07/19 Instructor (part time), Pathology, BWH
Harvard Medical School, Boston, USA

HOSPITAL AND AFFILIATED INSTITUTION APPOINTMENTS

09/14-present Consultant Subspecialty, Pathology
King Fahad Medical City

07/13-06/16 Fellow, Pathology-Neuropathology
Brigham and Women's Hospital, Boston MA

07/13-07/15 Fellow, Pathology-Neuropathology
Dana Farber Cancer Institute, Boston MA

MAJOR ADMINISTRATIVE LEADERSHIP POSITIONS

2020-present Monitoring Research, Development and Innovation in SARS-COV2 related
activities Committee Member, KACST

2020-present Technical committee, Scientific Council for Promotion, Member, KACST

2020-present Federation of Arab Scientific Research Councils, Official representative of
Saudi Arabia

2020-present GRC-MENA activities COVID-19 workshop, Committee Member, KACST

2020-present Global Research Council (GRC) Executive activities, Committee Member,
KACST

2020-present Member of the Saudi Human Genome Media Campaign Committee, KACST.

2020-present RDI strategy committee preparation, Chair, KACST

2020-present RDI strategy offices spaces, Committee Member, KACST

2020-present RDI strategy employees transfer, Committee Member, KACST

2020-2020 The foresight "Science navigating critical transition" organizing webinar
committee chair, S20 under G20, KACST

2020-2020 Moderator of the foresight "Women in Science" webinar, S20 under G20,
KACST

2020-present Continuous technical/medical Education activities committee chair, KACST

2020-present The S20 Future of Health Task Force, Precision Medicine Technical Leader, S20 under G20

2020-present Supervisor faculty of the Ibn Khaldun Fellowship for Saudi Arabian women Scientists and Engineers, KACST-Massachusetts Institute of Technology (MIT)

2020-present Board Member Sanad Children's Cancer Support Association

2020-present Committee Member at the S20 Future of Health Task Force, S20 under G20

2020-present Member of the COVID-19 Response Committee, KACST

2020-present Member of the Technical fast-tracking program for COVID-19 Committee, KACST

2020-present Member of the technical committee for evaluating HealthCare RDI system in Saudi Arabia, Royal court

2020-present Member of the Saudi Human Genome Project for preparing and reviewing media content Committee, KACST.

2020-present Member of the Scientific laboratories COVID-19 Committee, KACST

2020-present Member of the COVID-19 Preparedness Committee, KACST

2020-present Director of the Satellite Research Administration, KFMC

2020-present Director of the General Directorate for National RDI coordination

2020-2020 Deputy Director of General Directorate, KACST for Research and Innovation

2020-present Member of the Public Awareness Program, KACST, Committee for Saudi Human Genome

2020-present Scientific committee for Continuous Educational activities, Chair, KACST

2020-present Member of the National Scientific Integrity Committee, KACST

2019-present Member of the National Ethical Committee, KACST

2018-2019 Medical Director (part time), Molecular Diagnostic Laboratory, KFSH

2016-present Director of the Saudi Human Genome Lab KACST, KFMC

2017-present Chairperson and founder, Genomics Research Department, KFMC

2018-2019 Elected delegate to represent Saudi Arabia in the Gender Research Group, Global Research Council

2009-2010 Chief Resident (AP/CP), Georgetown University Hospital Washington D.C.

2016-2020 Founder of I-Gen (genomic start up)

2016-2019 Fellow at the fourth funding cycle of illumine accelerator-Badir incubator CID-IGEN

PROFESSIONAL SOCIETY MEMBERSHIPS

2007-present Member, American College of Clinical Pathology

2007-present Member, American College of Pathologists

2007-2013 Member, National Arab American Medical Association

2008-2013 Member, Virginia Society for Pathology

2008-present Member, United States and Canadian Academy of Pathology

2009-2011 Member, Cancer Committee in Georgetown University Hospital

2009-present Member, American College of Medical Genetics

- 2009-present Member, Association for Molecular Pathology
- 2012-present Member, American Medical Association
- 2012-present Member, American Association for Neuropathologists, (Awards committee selected member 2017-present)
- 2018-2019 Member, Joint Committee on the Status of Women, Harvard University

EDITORIAL ACTIVITY

Ad hoc Reviewer

BMJ Case Reports
Oncotarget
PlosOne
Thyroid
Neuropathology
BMC Endocrine Disorders
The Oncologist
Frontier Oncology
Frontier Neurology
Cancer Communication

Other Editorial Roles

- 2018-present Advisory board member, *MIT Technology Review* (Arabic Edition)
- 2018-2018 Managing Editor, *Frontier in Bio Science*
- 2019-2020 Managing Editor, *Frontier in Oncology/ Frontier in Neurology*
- 2019-present Associate Editor, *Frontier in Oncology*
- 2019-2020 Associate Editor, *Vaccines*
- 2020-Present Associate Editor, *NPJ Precision Medicine*

HONORS AND AWARDS

- 2019 Selected as one 40 Under Forty in the American Society of Clinical Pathology (ASCP), a professional association based in Chicago, USA and encompassing 130,000 pathologists and laboratories professionals. *First practicing women from MENA*
- 2021 Selected as one of the most influential pathologists in the world's 100 Power List, described as "Showstoppers", *The Pathologist* magazine (British magazine) - *First women from MENA*
- 2020 Shortlisted in the achievement category of the Nature Research Awards for Inspiring & Innovating Women in Science- *First women from MENA*
- 2020 ISNP Award, Association of American Neuropathologists

2019	Selected as one of the most influential pathologists in the world's 100 Power List (Trailblazers), The Pathologist magazine (British magazine)- <i>First women from MENA</i>
2019	Selected as one of the 10 most inspirational Saudis, AIRajol Magazine
2019	Cancer Research Award 2nd place, Governor of Eastern region
2019	KACST Distinguished Scientist award, National Genomics Center
2018	ISNP Award, Association of American Neuropathologists
2018	Selected as one of the 100 most influential pathologists in the world, The Pathologist magazine (British magazine)- <i>First person from MENA</i>
2018	Award for excellence in research, King Fahad Medical City Research Center
2017	ISNP Award, Association of American Neuropathologists
2017	Syaidaty Magazine Award in the Scientific and Medical Sector, Syaidaty Magazine
2016	Makkah award in scientific and technology sector, Makkah Governor
2015	Young professional MIT-ASO SciTech Award, Massachusetts Institute of Technology
2015	Davis Trainee Award, Association of American Neuropathologists
2014	One of the 50 distinguished women at the "Saudi Women's Leadership Summit", Crotonville Global Leadership Institute
2013	Nominee, Young Investigator Award, Association of Molecular Pathology Annual Meeting
2010	Selected to meet his Majesty, King Abdullah Al Saud for "outstanding performance by a Saudi physician-in-training in the U.S.", Saudi Arabian Embassy to USA
2009	2nd Annual Research Day Poster of the Year, Georgetown University Hospital
2009	Top 10 Resident Research Finalist, American Society of Clinical Pathology
2009-2012	Saudi Students Wall of Achievements Award in U.S., Saudi Arabian Cultural Mission to USA
2007-2010	Delegate resident, College of American Pathologists
2005	Scholarship in Molecular Pathology, Ministry of Higher Education
2000	Distinguished Student Award, King Abdul Aziz University School of Medicine

FUNDED AND UNFUNDED PROJECTS

Current

2020-2021	DNA methylation-based and RNA sequencing-based analysis of large cohort of Retinoblastoma: toward new therapeutic avenues, Sanad Children's Cancer Support Association (70,000 USD) Principle Investigator
2021-2022	Developing and Validating Somatic Cancer Genes and TMB Panel Using Next Generation Sequencing King Abdulaziz City for Science and Technology (600,000 USD) Principle Investigator

- 2017-2021 Clinical Cancer Genomics, National Transformation Program Project
King Abdulaziz City for Science and Technology (500,000 USD)
Principle Investigator
- 2020-2021 COVID19-Host Genetics- SHGP study, King Abdulaziz City for Science and
Technology (500,00 SAR indirect) + consumables, Principal Investigator
(KFMC site)
- 2020-2021 COVID19-Host Transcriptomic- SHGP study,
King Abdulaziz City for Science and Technology (710,00 SAR),
Principle Investigator
(KFMC site)
- 2020-2020 COVID19-Rapid testing, King Abdulaziz City for Science and
Technology (160,000 SAR), Principle Investigator
- 2021-2022 Prospective Methylation profile of Saudi children with CNS tumors
King Fahad Medical City (75,000 USD)
Principle Investigator

Past

- 2017-2020 The 1000 Saudi inherited cancer genome initiative
King Fahad Medical City (260,000 USD)
Principle Investigator
- 2019-2020 Methylation profile of Saudi children with CNS tumors
Sanad Children's Cancer Support Association (85,000 USD)
Principle Investigator
- 2018-2019 Validating NGS in clinical oncology
King Fahad Medical City (220,000 USD)
Principal Investigator
- 2018-2019 Genomic landscape of Saudi children with LGG
Sanad Children's Cancer Support Association (70,000 USD)
Principle Investigator
- 2017-2018 Genomic landscape of Saudi Children with Medulloblastoma"
Sanad Children's Cancer Support Association (70,000 USD)
Principal Investigator
- 2017-2018 Developing and validating cancer diagnostic genes panel using next-generation
sequencing with focus on solid archival cancer samples: a Saudi human genome
project study
King Fahad Medical City (220,000 USD)
Principle Investigator

- 2016-2017 Transcription factor and ciliogenesis in Glioblastoma
King Fahad Medical City (250,000 USD)
Principle Investigator
- 2016-2017 Genomic landscape of pediatric meningioma
Sanad Children's Cancer Support Association (60,000 USD)
Principal Investigator
- 2015-2016 Genomic landscape of pediatric Meningiomas
King Abdulaziz City for Science and Technology (50,000 USD)
Principal Investigator
- 2015-2016 Transcription factors in Ependymoma
King Abdulaziz City for Science and Technology (50,000 USD)
Principal Investigator
- 2015-2016 Toward differentiation therapy for Ependymoma
Sanad Children's Cancer Support Association (70,000 USD)
Principal Investigator
- 2014-2016 Genomic landscape of Meningiomas
King Abdulaziz City for Science and Technology (100,000 USD)
Principal Investigator
- 2014-2016 Genomic landscape of Ganglioneuronal tumors
King Abdulaziz City for Science and Technology (100,000 USD)
Principal Investigator
- 2011-2013 Meningioma Genomics
Department Fellow Grant (5,000 USD)
Principal Investigator
Goal: to do research in molecular genetics testing at University of California San Francisco.
- 2011 Trainee Grant Recipient
ASCP Resident Council Subspecialty Grant (2,000 USD)
Goal; to work in the field of hematopathology with Yaso Natkunam, MD, at Stanford University Medical Center

TEACHING AND TRAINING

Teaching of Students in Courses

- 2009-2010 Clinical Pathology, Instructor of didactic classes for medical students, 2 weeks of lab, Georgetown University
- 2011-2012 Brain, Mind, and Behavior, Instructor of didactic classes for medical students, 2 weeks of lab, University of California
- 2014 Immunology, Microbiology, and Pathology course (IMP), Instructor of didactic classes for medical students, 2 weeks of lab, Harvard University
- 2015-2019 Foundations of Medicine course (annual), sections on Pathology (Cell injury/death, Laboratory medicine); Cancer (Introduction to cancer biology, Oncogenes & tumor suppressors, Non-epithelial tumors, Angiogenesis/Metastasis), HMS/HDS students, Core faculty, Harvard Medical School

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2018-2019	Riyadh Pathology residents, Consultant
2018-2019	Molecular Neuropathology Pathology Workshop, King Fahad Medical City
2017-2018	Riyadh Pathology residents, Consultant
2016-2017	Molecular Pathology Workshop, King Fahad Medical City
2013-2015	DFCI-Pathology Conference, DFCI oncologists and pathology residents/fellows, Fellow, Brigham and Women's Hospital
2013-2014	Neurology-Neuropathology Conference, Neurology and pathology residents/fellows, Fellow, Brigham and Women's Hospital
2012	Mechanism of diseases, AP/CP and fellows, one hour lecture, University of California San Francisco
2007-2011	Pathology Pearls, AP/CP residents, one hour lecture, Georgetown University

Formal Teaching of Peers (e.g., CME and other continuing education courses)

No presentations below were sponsored by outside entities; Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

2021	Speaker, Emerging Role of Larotrectinib in Lung Cancer in The Precision Medicine Era, Bayer Saudi LLC Pharmaceuticals, virtual meeting
2020	Keynote Speaker, The Saudi Human Genome Project: PRECISION MEDICINE THROUGH GENOMICS, King Fahad Medical City annual research meeting, virtual meeting
2020	Speaker, The Saudi Human Genome Project: PRECISION MEDICINE THROUGH GENOMICS, 3 rd Arab Association for Genomics Research, virtual meeting
2020	Speaker, Precision Genomics in Cancer: My Journey with Meningioma, 3 rd Arab Association for Genomics Research, virtual meeting
2020	Saudi Genome COVID19 severity cohort, COVID19 Host Genetics Consortium
2020	Speaker, Arab Science Week, virtual meeting
2020	Speaker, 96 th Annual meeting American Association of Neuropathologists, virtual meeting, USA
2020	Panelist, UN 75 Conversation which will be hosted by Effat University, Jeddah-virtual, Saudi Arabia.
2020	Speaker, KAUST: <i>Emerging themes in epi-genome architecture and function</i> Jeddah, Saudi Arabia.
2020	Speaker, Prince Sultan Military Medical City: <i>Precision Genomics in Neurosurgery</i> , Riyadh, Saudi Arabia

- 2020 Speaker, KSU: *Women in Medicine: Career advancement, facilitating national and international mentorship for women in medical training*, Riyadh, Saudi Arabia
- 2020 Speaker, BioVision Alexandria 2020: *New Life Sciences: Reshaping the Future*, Alexandria, Egypt
- 2020 Speaker, KKESH: *Ocular Genetics*, Riyadh, Saudi Arabia
- 2020 Keynote Speaker, KAUST: *Digital Health and Vision 2030, How can genetics, genomics, and related technologies create value and increase efficiency of R&D?* Jeddah, Saudi Arabia
- 2020 Speaker, KAUST: *Emerging themes in (epi-)genome architecture and function, Precision Medicine Enters the Playing Field: Neuro-Oncology as a Model*, Jeddah, Saudi Arabia
- 2019 Speaker, Integrated Gulf Biosystems (IGB) and Thermo Fisher Scientific: *Oncology Day, Importance of Next Generation targeted therapies in Oncology* Riyadh, Saudi Arabia
- 2019 Speaker, KFMC, 2nd CCC Research Day, *Molecular Diagnosis in Cancer*, Riyadh, Saudi Arabia
- 2019 Speaker, Karolinska Institute: *Molecular Pathology for Cancer, Monogenic Disorder: Lessons Learned from The Saudi Human Genome*, Stockholm, Sweden
- 2019 Speaker, Karolinska Institute, *Molecular Pathology for Cancer, Personalized Medicine and CNS tumors*, Stockholm, Sweden
- 2019 Speaker, National Academies of Science, Engineering and Medicine (NASEM), *Promising Practices for improving the inclusion of women in science, Engineering, Medicine: Lessons from Kuwait and the United State*, Washington DC, USA
- 2019 *Culturally appropriate leadership training: pathways to improve patient care and female empowering*, American society of clinical pathology (ASCP), Arizona, USA
- 2019 Invited Speaker, *Saudi Genome project*, Karolinska Institute, Stockholm, Sweden
- 2019 *Women, Youth and inclusive development in MENA region*, High Level political forum/ UN, New York, USA
- 2019 Speaker, 95th Annual meeting American Association of Neuropathologists, Atlanta, Georgia, USA
- 2019 Keynote Speaker, *King Fahad Medical City; Molecular Diagnosis in Cancer*, Riyadh, KSA
- 2019 Panelist, Arab-Harvard Conference, Boston, USA
- 2019 Keynote Speaker, Prince Sultan University: *Forum: Women in Data Science*, Riyadh, Saudi Arabia
- 2019 Speaker, KACST: *Women in Data Science Riyadh - Health and Bioinformatics* Riyadh, Saudi Arabia
- 2019 King Saud University *Women Forum*, Riyadh, Saudi Arabia
- 2019 Keynote Speaker, *Youth Leadership Forum*, Jazan University, Jazan, Saudi Arabia
- 2018 Speaker, Khalifa University: *The Saudi genome project – history and current status* Abu Dhabi, UAE
- 2018 Arabnet: *Women Mentoring Women*, Riyadh, Saudi Arabia

- 2018 KACST: *Genomic in Cancer: Bring Precision Treatment*, Riyadh, Saudi Arabia
- 2018 Speaker, *Pharmacogenomics*, Alfaisal University, Riyadh, Saudi Arabia
- 2018 *Genomics Characterization in pediatric low grade glioma*, Human Genetic Day, Riyadh, Saudi Arabia
- 2018 Speaker, Misk Foundation: Stations in My Life Riyadh, Saudi Arabia
- 2018 Speaker, Cases gave me headache, International Association of Pathology IAP, Dead sea, Jordan
- 2018 Speaker, *Precision medicine enters the playing field*, Oxford University, UK
- 2018 Speaker, *Science in Arab world*, MIT SciTech conference, Cambridge, MA
- 2018 Keynote speaker, *Cancer Genomic: Empowering Precision Treatment*, Saudi Medical Genetics Society, Riyadh, Saudi Arabia
- 2018 Keynote speaker, *Challenges for women in science*, Princess Noura University, Riyadh, Saudi Arabia
- 2018 Speaker, Update about Saudi Human Genome Project, Scientific Research week, King Saud University, Riyadh, Saudi Arabia
- 2018 Keynote speaker and scientific chair of molecular track *Genomics in Cancer: The Era of Precision Medicine in the Gulf Region*, The 2nd Combined Conference on Cancer Screening and Early Detection in the Gulf Region, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia
- 2018 Invited speaker, *Saudi women in STEM*, The United Nations, Geneva, Switzerland
- 2017 Keynote speaker, *Saudi Human Genome Project: Toward application of precision medicine in the clinic*, IonWorld Conference, Riyadh, Saudi Arabia
- 2017 *Science Creates Career Avenues*, Women Leaders in Science, Technology and Engineering (WLSTE+10), Kuwait City, Kuwait
- 2017 *Genomic Landscape of high-grade meningioma*, American Association of Neuropathologists meeting, Orange County, California
- 2017 *Medulloblastoma genomic subgroup-specific outcomes in irradiated children above 3 years treated at King Fahad medical city (KFMC)*, American Association of Neuropathologists meeting, Orange County, California
- 2017 *Bap1 in Rhabdoid meningioma*, United States and Canadian Academy of Pathology, San Antonio, TX
- 2017 Keynote speaker, *The Saudi Human Genome Project*, British embassy, Riyadh, Saudi Arabia
- 2017 Keynote speaker, International conference of medical education, Saudi commission for health specialties, Riyadh, Saudi Arabia
- 2017 *Meningioma genomics*, Riyadh pathology group monthly meeting, Riyadh, Saudi Arabia
- 2016 Keynote speaker, *Genomic landscape of Brain tumors*, 6th National Genetic Diseases Conference, Dubai, UAE
- 2016 *Molecular genetics pathology of pituitary adenoma*, American Association of Neuropathologists meeting, Baltimore, MD
- 2015 *Precision medicine in brain tumors: hype or reality?* Grand Round, Department of Medicine, King Fahad Medical City, Riyadh

- 2015 *Brain tumors beyond WHO classification*, Riyadh pathology group monthly meeting, Riyadh
- 2015 *A prognostic cytogenetic scoring system to guide the adjuvant management of patients with gross totally resected atypical meningioma*, Society of Neuro-Oncology San Antonio, TX
- 2015 *A prognostic molecular scoring system to guide the adjuvant management of patients with gross totally resected atypical meningioma*, American Association of Neuropathologists, Denver, CO
- 2015 *Copy number alterations in skull base meningiomas*, United States and Canadian Academy of Pathology annual meeting., Boston, MA
- 2014 *Brain tumor genomics beyond the WHO classification* “Path Presents” seminar lecture series, Department of Pathology Graduate Program, University of Washington, Seattle, WA
- 2013 *Tenosynovitis caused by Mycobacterium heraklionense*, Association for Molecular Pathology, Annual Meeting, Phoenix, AZ
- 2013 *Genomics 101: Annual course for International Medical Students and Interns. Research from Bench to Bedside course*, Johns Hopkins University, Baltimore, MD
- 2013 *Altered telomeres with loss of ATRX protein are frequently seen in high-grade pediatric gliomas*, The United States and Canadian Academy of Pathology, Annual Meeting, Baltimore, MD

Clinical Supervisory and Training Responsibilities

- 2009-2010 Junior Pathology resident, served as laboratory instructor for formal medical student courses, teaching histology and pathology of various organ systems to 1st and 2nd-year medical students, Georgetown University.
- 2011-2012 Senior Resident and Surgical Pathology Fellow (informal teaching activity), Supervised medical students and 1st and 2nd-year Pathology residents regarding gross evaluation of specimens received in the Pathology laboratory and the interpretation of slides, mostly in the capacity of the Gross Room Supervisor and Hotseat Fellow, University of California San Francisco
- 2012-2013 Molecular Genetics fellow, taught the clinical application for cancer genetics and inherited diseases testing for pathology and pediatric residents, University of California San Francisco
- 2013-2015 Neuropathology fellow, taught the pathological classification of brain tumors and other neurological disorders and related genetics for the pathology, neurology, and neurosurgery residents and fellows. I co-operated the weekly adult and pediatric tumor boards in Brigham & Women’s Hospital Dana-Farber and Boston Children’s Hospital with my co-fellows. I presented in the adult and pediatric clinical neurology-neuropathology weekly conferences. I also taught medical students from Harvard Medical school and other international medical students rotating in Neuropathology
- 2015-2019 Instructor in HMS, taught medical students, residents, and fellows neuropathology and molecular application in brain tumors. I also sign out molecular neuropathology and function as sponsored primary investigator, Brigham’s and Women’s Hospital for multiple grants

- 2015-present Consultant neuropathologist, ran weekly brain tumor board. Daily teaching and sign out with pathology residents. Chairperson and founding member for Genomic Research Department, KFMC Research Center
- 2016-2020 Assistant research professor, oversee 20 researchers and a senior primary investigator, KACST
- 2018-2019 Medical director, Oversee the Saudi Diagnostic laboratory of King Faisal Specialist Hospital International including services such as NGS based panels, WES, Newborn screening, molecular oncology, and clinical trials testing.
- 2016-2020 Associate research professor, oversee 80 researchers and administrators in the general directorate of Science support and innovation
- 2016-2020 Senior primary investigator in Saudi human genome program, KACST-KFMC site
- 2020-present Associate research professor, oversee 20 researchers and administrators in the general directorate of RDI National coordination, KACST

CLINICAL ACTIVITIES AND INNOVATIONS

Current Licensure and Certification

- 2006 Educational Commission of Foreign Medical Graduates Certificate
- 2010 Medical Licensure, California
- 2010 Medical Licensure, District of Columbia
- 2012 Future of Medicine Certificate, Singularity University, NASA
- 2012 Anatomic Pathology American Board Diplomat (specialty)
- 2012 Clinical Pathology American Board Diplomat (specialty)
- 2013 Medical Licensure, Massachusetts
- 2013 Scientific Writing Certification, University of California San Francisco
- 2013 Molecular and Genetics Pathology Board Diplomat (subspecialty)
- 2013 Fellow of the American College of Pathologists
- 2013 Fellow of the American Society of Clinical Pathology
- 2013 Certificate in Biostatistics, Harvard Catalyst, Harvard University
- 2015 Neuropathology Board Certification (subspecialty)
- 2015 Saudi Health Specialties Certification (Consultant)
- 2019 Certificate of Advanced Practical Pathology Program (AP3), College of American Pathologists (CAP)

Patient Education and Service to the Community

No presentations below were sponsored by outside entities; Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

- 2020 Judge, AIMarie scientific award (research units track) (Riyadh, Saudi Arabia)
- 2019 Judge, MOH research pioneer awards (all seven tracks) (Riyadh, Saudi Arabia)
- 2019-present Judge, Innovator under 35 MENA for MIT Technology Review (Dubai, UAE)

- 2017-2018 Li Fraumeni Syndrome Association founding chapter chair (Saudi Arabia) which aims to raise awareness about LFS and other Inherited cancer syndromes in Arabic
- 2015-2017 Scientific committee member, King Abdulaziz and His Companions' Foundation for Giftedness and Creativity (known as Mawhiba)
- 2015-present Inspirational Speaker in multiple institutes in Saudi Arabia (KSU, Imam, KACST, Mawhiba, Dammam)
- 2016 Speaker, TedEx KSU
- 2020-present Board member, Sanad Children's Cancer Support Association
- 2014-2020 Active member, Scientific committee, Sanad Children's Cancer Support Association
- 2011-2015 Supporter, World Vision
- 2011-2015 Supporter, Islamic Relief USA
- 2014 Volunteer, Partners in Health; In 07/2014, spent 3 weeks in Malawi University Pathology Dept. where my role was to sign out general pathology and teach medical students
- 2012-2015 Supporter, Women for Women International

Appeared in multiple TV interviews (Arabic/English) and in newspaper articles (Arabic, French, Italian, and English), raising awareness of Genomic and STEM empowerment and education for women, girls, and youth.

Personal website: www.malakabed.com

SCHOLARSHIP

Peer-reviewed publications in print or other media: *H* index: 24, Total citations: 2017 (accessed 10/6/2021)

1. **Abedalthagafi M***, Mobark N, Al-Rashed M, AlHarbi M. Epigenomics and immunotherapeutic advances in pediatric brain tumors. *NPJ Precis Oncol.* 2021 Apr 30;5(1):34. doi: 10.1038/s41698-021-00173-4. PMID: 33931704. *Senior Author
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