

## CURRICULUM VITAE

Name: **Nada Abdul Sahib Hassan Al Alwan**  
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### Education and Qualifications:

- **M.B. Ch.B. Baghdad College of Medicine, Baghdad University (1983).**
- **M.Sc. Cytopathology, Baghdad College of Medicine, Baghdad University (1988).**  
*Thesis entitled: "Precancerous and Cancerous lesions of the Uterine Cervix".*
- **Ph.D. Pathology, Medical College, Baghdad University** in collaboration with **Karolinska University, Stockholm / Sweden (1998).**  
*Thesis entitled: "Clinicocytopathological Evaluation of Nuclear DNAPloidy and Hormone Receptor Contents of Breast Tumours".*
- **F UICC ( Fellow of the International Union Against Cancer), Geneva, Switzerland (since 1996).**
- **UICC Training Certificate in Cancer Pathology, Karolinska Hospital, Stockholm, Sweden (Early Diagnosis of Cancer using Fine Needle Aspiration Cytology Techniques (1996).**
- **UICC Training Certificate in Colposcopic Pathology, University Hospital of Geneva, Switzerland (Early Detection of Cervical Cancer using Colposcopy and Liquid Based Cytopathology (1999).**
- **Post Doctorate Diploma in Cancer Control, Principles and Practice in Cancer Prevention and Control, National Cancer Institute, Bethesda, Maryland, USA (2008).**
- **Advanced Academic Medical Education and Research, MD, WHO Collaborative Public Health Center, Imperial College London, UK ( 2013).**
- **Collaborative Research on Breast Cancer Behaviour among Iraqi and British Patients, MD, Sabbatical, Oxford University, John Radcliffe Hospital, Oxford, UK (2017).**

### Fields of Specialization and Interest:

- **Medical Education and Health Research** focusing on Cancer.
- **Diagnosis, Early Detection and Screening** of Breast and Gynecological Malignancies.
- **Strategies on the implementation of the Regional and National Cancer Control Programs.**

### Present Positions:

- **Adviser to the President of the Republic for Health Affairs, Presidency Office, Republic of Iraq (since 7 August 2019).**
- **Scientific Supervisor, Consultant, National Program for Early Detection of Breast Cancer, Oncology Teaching Hospital, Medical City, Ministry of Health (since 2003).**
- **Professor, Senior Researcher, Founder, National Cancer Research Center, University of Baghdad (since 2012).**

**Institutional Positions** (undertaken before moving to the Advisery Board position of the Presidency Office on 7 August 2019):

- **Founding Director, National Cancer Research Center / Program, Baghdad University, Ministry of Higher Education & Scientific Research MoHESR (from 22 July 2012 – 7 August 2019).**
- **Professor of Pathology, Consultant, Medical College, University of Baghdad (since 2001).**
- **Executive Director, National Campaign for Early Detection and Research on Breast Cancer (since 2010).**
- **Chairperson, Medical Committee, Iraqi Scientific Research Council, MoHESR (since 2012).**
- **Manager, Main Specialized Center for Early Detection of Breast Tumours, Oncology Teaching Hospital, Medical City, Ministry of Health (since 2003).**
- **Principal Investigator, Regional Comparative Breast Cancer Research Project, MoHESR in collaboration with WHO, IARC & IAEA/PACT (since 2012).**
- **National Project Coordinator & Counterpart, Capacity Building Project for Cancer Diagnosis and Treatment in Iraq, IAEA**

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(International Atomic Energy Agency), MoH, MoHESR & MoST (since 2016).

### Previous Institutional Positions:

- House Officer, Medical City Teaching Hospital, Baghdad (1983-1984).
- Teaching Assistant, Dept. of Pathology, College of Medicine, Baghdad University (1984-1985).
- M.Sc. student, Dept. of Cytopathology, Baghdad Univ. (1985-1987).
- Assistant Lecturer, Dept. of Pathology, Baghdad Univ. (1988-1992).
- Lecturer, Dept. of Pathology, Baghdad Univ. (1992-1995); teaching under-graduate and postgraduate students (theoretical and practical sessions in Pathology).
- Assistant Professor, Dept. of Pathology, Baghdad Univ. (1995—2000); training under medical graduate students and postgraduate doctors on the methods used in early detection of Breast and Cervical tumours using Fine Needle Aspiration Cytology and Pap smears and teaching Pathology.
- Principal Investigator I, WHO Pilot Study Demonstration Project of Screening for Cervical Cancer Precursors in Iraq (WHO in collaboration with MoH and MOHESR, 2000- 2003).
- Director, Cytopathology Department, Teaching Laboratories, Medical City Teaching Hospital, MoH ( 1998 – 2002 ).
- Supervisor, Scientific Committee of the Reproductive Health and Family Planning Association, Baghdad (1999-2001).
- Director, Breast Diseases Research Unit, College of Medicine, Baghdad University ( March 2002 – February 2003).
- Secretary General, Supreme Committee for Continuous Medical Education. Baghdad University, MoHESR in collaboration with MoH (2004 - 2005).
- Director, Cancer Control Team in the Emergency Public Health Assistance Project. Iraqi Cancer Board, MoH in collaboration with WHO ( 2004-2007).
- Head, Consultative Advisory Committee of Histopathology and Cytopathology. MoH (2004 –2005).
- Executive Director, National Program of Early Detection of Breast Cancer, MoH (2004 – 2009).
- Director, Breast and Cervical Cancer Research Unit, College of Medicine, Baghdad University, Ministry of Higher Education & Scientific Research (2009-2012).
- Director, Main Referral Training Center for Early Detection of Breast Cancer, Medical City Teaching Hospital, MoH (2001-2012).
- Executive Director, Capacity Building Project to Support Health Services in Iraq, MoHESR (in collaboration with MoH under supervision of WHO and European Union (2013...)).

### Work Experience as a Consultant / Advisor to International Health & Medical Organizations:

- **Consultant, UNDP/UNIFEM**; designed a "National Strategy for Women and Health in Post-war Iraq" (2003 ).
- **Temporary Advisor, WHO/EMRO**, on Breast Cancer Pathology, (Eastern Mediterranean Regional Office) / WHO, Cairo, Egypt ( 6-10 March 2006).
- **Temporary Advisor, WHO/EMRO**, Technical Consultation on the Regional Strategy for the Control and Prevention of Cancer in the EMR, Marrakesh, Morocco (20-22 November 2007).
- **Technical Advisor, UNFPA**, Reproductive Adolescent Health, Amman, Jordan, (April 2008).
- **Consultant, U.S. Middle East Partnership Initiative (MEPI)**, Baseline Assessment on Breast Cancer Awareness, Care and Research in the Palestinian Territories, ICF International / Department of State's (2008).
- **Temporary Advisor, WHO/EMRO**, Consultative Meeting on the Draft Regional Cancer Control Strategy, Cairo, Egypt (30 April- 1 May 2008).
- **Technical Advisor, UNFPA**, Reproductive Adolescent Health, Amman, Jordan (1-2 November 2008).
- **Temporary Advisor, WHO/EMRO**, Adoption of the Regional Cancer Control Strategy and Developing of National Workplans, Eastern Mediterranean Regional Office, Cairo, Egypt, **EMRO / WHO** (15-18 December 2008).
- **Consultant, MEPI**, (Partnership Community Advocacy Grants, 2009 Selection Committee, ICF International / U.S. Department of State's Middle East Partnership Initiative February, 2009).
- **International Expert, WHO/IAEA**, Coordination and Planning Meeting with Member States on the Cancer Control Strategy, **WHO/IAEA Cooperation Program on Cancer Control**, Vienna International Center, Austria, IAEA/ PACT (29 June-1 July 2009).
- **Global Advocate, Suzan G Komen for the Cure**, Regional Training Seminar on Breast Cancer Support Groups, Cairo, Egypt, 20-25 October 2009.

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- **International Consultant, IAEA/PACT (Program of Action for Cancer Therapy)**, 8<sup>th</sup> Middle East Oncology Congress, Beirut, Lebanon, 5-7 November 2009.
- **Technical Advisor, Jordan Breast cancer Program**, 1<sup>st</sup> Meeting of the Consultative Committee, Amman/KHCC, Jordan, 12-13 June 2010.
- **Consultant, International Atomic Energy Agency (IAEA/PACT)**, Breast Cancer Control in Developing Countries, Vienna/IAEA Centre, Austria (1 July-31 August 2010)..
- **Consultant, International Atomic Energy Agency IAEA/PACT**, Breast Cancer Control Worldwide, Lyon/IARC, France, 29-30 July 2010.
- **Consultant International Atomic Energy Agency, IAEA/PACT**, Global Burden of Breast Cancer, Geneva/WHO, Switzerland, 30-31 July 2010.
- **Consultant International Atomic Energy Agency, IAEA/PACT**, Breast Cancer Control, Colombo/MoH, Sri Lanka, 4-5 August 2010.
- **Consultant International Atomic Energy Agency, IAEA/PACT and The Breast Health Global Initiative (BHGI)**, Ghana Breast Cancer Specialty Training Course, Accra, Ghana, 23-27 August 2010.
- **Temporary Advisor, WHO/EMRO**, Consultative Meeting on Building NCD Regional Research Agenda, Eastern Mediterranean Regional Office, Dubai, UAE, 11-13 December 2011.
- **Temporary Advisor & Principal Investigator, WHO/EMRO**, Consultative Coordinating Meeting on the Regional Comparative Breast Cancer Research Program, Eastern Mediterranean Regional Office, WHO/EMRO in collaboration with IARC, IAEA/PACT & Komen for the Cure, Sharm Al Sheikh, Egypt, 21-22 January 2012.
- **Country Focal Representative, Komen G for the Cure Org.**, Base line Needs Assessment for Women's Breast Health Care in the Middle East, 20 January 2012.
- **Temporary Advisor, WHO/EMRO**, The Regional Meeting on Cancer Control and Research Priorities in the Eastern Mediterranean Region, WHO/EMRO in collaboration with IARC, Doha, Qatar, (20-22 October 2013).
- **Temporary Advisor, WHO/EMRO**, The 2<sup>nd</sup> Regional Meeting of the Comparative Breast Cancer Research Project in the Eastern Mediterranean Region, WHO/EMRO in collaboration with & the National Cancer Research Center, Amman, Jordan, 9-10 November 2015.
- **Temporary Advisor, WHO/EMRO**, Consultative Meeting on Early Detection and Screening of Priority Cancers in the Eastern Mediterranean Region, Cairo, Egypt, 14-15 January 2016.
- **National Expert / Project Counterpart, International Atomic Energy Agency (IAEA)** in collaboration with MoH, MoHESR, and MoST, National Capacity Building Joint Program Meeting on Radiotherapy and Nuclear Medicine, Vienna, Austria, 18-22 July 2016.
- **National Expert / Project Coordinator, IAEA**, Jordanian Atomic Energy Commission, Iraqi National Expert workshop for finalizing Projects Design of 2018-2019 Cycle, Amman, Jordan 5-9 March 2017.
- **Regional Expert, Facilitator, WHO Regional Training Collaborative Center**, Capacity Building in Research Methods and Ethics, Workshop on Good Health Research Practice, Pasteur Institute, Tunis, Tunisia, 22-25 December 2017.

### International Courses and Medical Field Visits:

- Introduction to Cancer Epidemiology with Emphasis on Cancer Control, held by the International Agency for Research on Cancer (Lyon), **Amman, Jordan** (18-28 September 1995).
- Training course on Fine Needle Aspiration Cytology of Palpable Masses, Karolinska Hospital, **Stockholm, Sweden** (UICC Fellowship) (19 July-16 August 1996).
- Training course on Recent Advances in Colposcopy and Liquid-Based Cytology, **Geneva** University Hospital, **Switzerland** (22 Sept.- 22 October 1999).
- Visits to key Training and Cancer Centers in **Philadelphia** (including Hahnemann, Fox Chase & Pennsylvania Hospitals), Miami (Miami School of Medicine), Washington DC (Bethesda / NCI), and San Antonio, **USA** (27 November-15 December 2004).
- Training course on Oncopathology, Trilateral Medical Technical Cooperation for Iraq, Jaica - Cairo University Hospital and Cairo NCI (Supervision of the Iraqi Pathology Team Training), Cairo, Egypt (3-14 March 2005).
- Visits to key Cancer Centers and training Institutes in **London, U.K.** (15-18 March 2005) – Formal invitation from the UK International Department of Health in support of rebuilding of Iraq initiatives and identifying areas of future collaboration..
- Supervisor and Facilitator to a Field Visit in King Hussein Cancer Center in **Amman, Jordan**, First National Workshop on Early Detection of Breast Cancer (8-11 August 2005).
- Training Course on Liquid-Based Cytology, Crawley, **West Sussex, U.K.** (27-29 September 2005).

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- Visit to the Eastern Mediterranean Regional Office (EMRO) /WHO - as a Temporary Advisor on Breast Cancer Pathology, **Cairo, Egypt** (6-10 March 2006).
- Field Visit to Ain Shams University (Pathology, Surgery and Gynecology Departments), Cairo, **Egypt** (8 March 2006).
- Field Visit to the Pathology Department, Salmaniya Hospital, **Manama, Bahrain** (3 May 2006).
- Field Visit to the Early Detection Cancer Clinic, Clemenceau Medical Center (CMC), **Beirut, Lebanon** (2 June 2006).
- Supervisor and Coordinator of a National Training Program on Early Detection of Breast Cancer (for a multidisciplinary team including 34 Iraqi fellows), Cairo NCI, Kasr Al-Aini and the Italian Hospitals, **Cairo, Egypt** (19 Nov. – 7 December 2006).
- Field Visit to Fakous Cancer Centre, **Sharqeya Governorate, Egypt** (1 December 2006).
- Field Visit to Al-Sulaiman Hospital / Oncology Centre, **Port Said, Egypt** (27 December 2007).
- Field Visit to Cairo National Cancer Institute, **Cairo, Egypt** (3 January 2008).
- Visit to the Eastern Mediterranean Regional Office (EMRO) /WHO - as a Temporary Advisor to finalize the Regional Cancer Control Strategy and develop a Regional Framework for Country Action. **Cairo, Egypt** (30 April – 1 May 2008).
- Summer Curriculum Course on Cancer Prevention and Control, National Cancer Institute, Bethesda, **Maryland, USA** (7 July – 2 August 2008).
- Field Visit to King Hussein Cancer Center under patronage of the Executive Director, Her Highness Princess Dina, **Amman, Jordan** (2 November 2008).
- Field Visit to the International Atomic Energy Agency/Program of Action for Cancer Therapy, WHO/IAEA Coordination and Planning Meeting with Member States on Cancer Control Strategy, Technical Cooperation Program for Asia & Pacific Region, Vienna International Center, **Vienna, Austria**, 29 June 1 July 2009.
- Field Visit to the International Agency for Research on Cancer (IARC) – during which a comprehensive breast cancer information system for the Iraqi National Breast Cancer Research Program was organized in collaboration with IARC Screening Group, **Lyon, France** (5-12 July 2009).
- Field Visit to the Lebanese Order of Physicians and the Lebanese Atomic Energy Commission - during which there were discussions on possible means of collaboration for the implementation of the regional comparative breast cancer research program, **Beirut, Lebanon** (5-7 November 2009).
- Field Visit to King Hussein Cancer Center – discussion with its President on the possible means of collaboration for the implementation of the regional comparative breast cancer research program, Amman, **Jordan** (30 December 2009).
- Field Visit to EMRO/WHO and Cairo NCI - discussions with the Regional Advisor, NCD/EMRO and Dean. NCI on the possible means of collaboration for the implementation of the regional comparative breast cancer research program, **Cairo, Egypt** (13-14 Feb. 2010).
- Field visit to the residency of IAEA (PACT bureau), during a mission as an International Consultant on Breast Cancer Control, **Vienna, Austria** (1 July-31 August 2010)..
- Field visit to the residency of IARC, during a mission as a PACT/IAEA Consultant on Breast Cancer Control in the , Developing World, **Lyon, France** (29-30 July 2010).
- Field visit to the residency of WHO/Head Quarters, during a mission as a PACT/IAEA Consultant on Breast Cancer Control, GenevaLWHO, **Geneva, Switzerland** (30-31 July 2010).
- Field Visits to Maharagama National Cancer Institute, Shanta Sevana Hospice and MoH of Sri Lanka, during a mission as PACT/IAEA consultant to assess breast cancer control capacity in Sri Lanka, **Colombo, Sri Lanka** (4-5 August 2010).
- Field Visit to Korle Bu Teaching Hospital, during a mission as an International Consultant to PACT/IAEA and BHGI on Breast Cancer Control, **Accra, Ghana** (27 August 2010).
- Field visit to the American University of Beirut (AUB), Radiology, Pathology, Surgery & Gynecology Departments, **Beirut, Lebanon** (February 2012).
- Field visit to the King Hussain Cancer Center (KHCC), Pathology, Surgery & Radiology Departments, **Amman, Jordan** (March 2012).
- Field visit to the Breast Cancer Foundation of Egypt (BCFE), Cairo, **Egypt** (August 2012).
- Advanced Academic Training Course, WHO Collaborative Public Health Center, Imperial College London, **London, U.K.** (20 August – 20 September 2013).
- Field Visits to Medical Teaching Institutes/Hospitals and Research Centers in **UK**: Charing Cross Hospital, Croyden University Hospital , British Medical Journal House, Central Middlesex Hospital, King's College NHS Healthcare Trust, Saint Thomas/ Pathology Labs, Cytopathology Dept. – Hammersmith Hospital, Saint George's Hospital , London Government Chemist, Oncology Breast Center, Royal College of Pathologists and Oxford University Research Center, London, **United Kingdom**. (20 August – 20 September 2013).
- Field Visits to Finnish University Hospitals, Primary Health Care Centers, National Institute for Health& Welfare and Ministry of Social Affairs & Health (supervised by EU and WHO), **Helsinki, Finland** (6 -16 June 2014).

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- Imperial College London, WHO Collaborative Public Health Center, Advanced Research Training Course, **London, United Kingdom** (8-19 December, 2014).
- Field Visits to Research Centers in **London**: Hammersmith Primary Health Care - Research Centre, Oxford Research Centre, Charing Cross Research Center and the Royal College of Pathologist, **London, United Kingdom** (8-18 December 2014).
- Field visit to the Screening Unit of IARC , as a Principal Investigator in the Regional Comparative Breast Cancer Research Project, International Agency for Research on Cancer, **Lyon, France** (9-10 July 2015).
- Field visit to Imperial College London, Department of Primary Care and Public Health, 1st International Conference of Primary Care and Public Health & 3rd international Congress of Person-Centered Medicine, **London, United Kingdom** (29-31 October 2015).
- Eastern Mediterranean Regional Office as a Temporary Adviser, WHO, **Cairo, Egypt** (14-15 January 2016).
- Field visit to IAEA, as a National Expert in a Meeting for aligning the New Iraqi CPF with the National Capacity Building Program for Radiotherapy and Nuclear Medicine, **Vienna, Austria** 18-22 July 2016.
- Practical Hands On Training on Leica Aperio AT2 Digital Pathology Scanner, **Frankfurt, Germany** 29 October -6 November 2016.
- Field visit to the Jordanian Atomic Energy Commission, Research Laboratory & Information Department, Iraqi National Expert workshop for finalizing Projects Design of 2018-2019 Cycle, IAEA, **Amman, Jordan** 5-9 March 2017.
- Oxford University, John Radcliffe Hospital, Sabbatical, Collaborative Research on Breast Cancer on Iraqi and British Patients, **Oxford, UK** (13 June – 27 September 2017).
- Field visits to the Breast Screening Units and Pathology Departments of Queens and King George Hospitals, **London, UK** (31 August 2017).
- Royal College of Pathologists & King George Hospital, Head, Iraqi Expert Mission, **London, UK** (26-28 June 2018).
- Royal College of Physicians, Expert Professor, **London, UK** (13-14 September 2018).
- University College London, Keynote Speaker, Iraqi Environment and Health Society - UK Conference, **London, UK** (24 March 2019).
- Ealing Hospital, Keynote Speaker, Spring Scientific Conference of the United Iraqi Medical Association in UK and Ireland, **London, UK** (30-31 March 2019)..
- Royal College of Pathologist, IAEA National Project Coordinator, Expert mission, **London, UK** (1 July 2019).
- Royal College of Radiologist, IAEA National Project Coordinator, **London, UK** (7 July 2019).
- AMAR International Charitable Foundation, Expert meeting with the Founder, Baroness Ema Nicholson, Support to Cancer Control Program in Iraq, **London, UK** (2 December 2019).

### Publications:

1. **Al-Alwan N.**: "The Value of Cytology in Diagnosing Cervical Intraepithelial Neoplasia." J.Fac. Med. Baghdad Univ. 1992; 34 : 155-165.
2. Al-Saleem T., Khalil M. & **Al-Alwan N.**: "Tumors and Tumor-like conditions of the vulva and vagina." J.Fac. Med. Baghdad Univ. 1992; 34 : 167-176.
3. **Al-Alwan N.**, Al-Khurri L. & Al-Rawi K. "Cytology-Histopathology Correlation as a Quality Control Procedure in Gynecologic Diagnosis", J. Fac. Med. Baghdad Univ. 1994; 36: 195-199.
4. **Al-Alwan N.**, Al-Saadi Z & Al-Rawi K: "Long-Term Cytologic Follow-up Studies of Copper Intrauterine Contraceptive Device Users", J.Fac. Med. Baghdad Univ. 1995; 37: 113-118
5. **Al-Alwan N.**: "The Fate of Mild Cervical Dysplasia: a long-term cytologic follow-up study of 252 patients" . J.Fac. Med. Baghdad Univ. 1995; 37: 237-244
6. **Al-Alwan N**, Al-Hashimi A, Salman M & Al-Attar E: "Fine Needle Aspiration Cytology Versus Histopathology in Diagnosing Lymph Node Tumors". Eastern Mediterranean Health Journal, WHO/EMRO, 1996; 2: 320-324.
7. **Al-Alwan N**: "DNA Ploidy and Hormone Receptor Contents in Iraqi Breast Cancer". Association of the UICC Fellows (AUF), Membership Directory, Geneva, 1997.
8. **Al-Alwan NAS** : "Clinicocytopathologic Evaluation of Nuclear DNA Ploidy and Hormone Receptor Contents of Breast Tumors ".Ph.D. Thesis. Baghdad Univ. 1998.
9. **Al-Alwan N**, Al Kubaisi W & Al Rawaq K : "Assessment of Response to Tamoxifen in Iraqi Patients with Advanced Breast Cancer". EMHJ, WHO. Eastern Mediterranean Regional Office, 2000: 6 (3/4 ): 475-482.
10. Al-Kubaisi W, **Al-Alwan N** & Al-Nu'aimi K.: "Pulmonary Alveolar Microlithiasis: An overlooked Disease in Iraq". EMHJ, WHO, Eastern Mediterranean Regional Office, 2000: 6 (5/6): 1130-1136.
11. Al-Kubaisi W, **Al-Alwan N.** & Niazi A : "Hepatitis C Virus Antibodies, RNA and Genotypes in Iraqi Pregnant Women and Its Relation

- Alanine Amino Transferase Levels" .Iraqi J Med. Sciences, /1999; no. 168.
12. **Al Alwan NAS**: " DNA Proliferation Index as a Marker in Iraqi Aneuploid Mammary Carcinoma". EMHJ, WHO, Eastern Mediterranean Regional Office, 2000; 6(5/6): 1062-1072.
  13. **Al-Alwan N**: "Screening Programme for Cervical Cancer Precursors Using Colposcopy, Cervical Cytology and Human Papillomavirus Detection". Association of the UICC Fellows (AUF), Membership Directory, Geneva 2000.
  14. **Al-Alwan N**: "Colposcopy, Cervical Cytology and Human Papillomavirus Detection as Screening tools for Cervical Cancer". EMHJ, WHO, Eastern Mediterranean Regional Office, 2001: 7(1/2): 100-105.
  15. Gharib B, Al-Ani S. & **Al-Alwan N**: "Flow Cytometric DNA Analysis of Oral Squamous Cell Carcinoma in Iraqi Patients." EMHJ, WHO, Eastern Mediterranean Regional Office, 2002; 8(2/3):393-403.
  16. **Al-Alwan N**, Mahdi N, Othman A, et al: "The National Campaign for Early Detection of Breast Cancer". Medical Guideline Manuel, MoH, Baghdad, Iraq, 2003.
  17. **Al-Alwan N**, Othman A, Mahdi N, et al: "The National Campaign for Early Detection of Breast Cancer". Educational Guideline Manuel, MoH, Baghdad, Iraq, 2003
  18. AlAwqati N, Abdulla F, Ibrahim N, Muhsen N, Jaffar R & **Alwan N**: , The Women's Vision for the Iraqi Health System, MoH, USAID, Iraq, 2004.
  19. Al-Rubaiee N, Al-Hadithi R, & **Al-Alwan N**: " Diagnostic Value of Cytology and Colposcopy in Patients with Abnormal Cervical Pap Smears". Al-Kindy Col. Med. J, , Baghdad Univ., 2006; 3 (1) : 56-62.
  20. Al-Rubaiee N & **Al-Alwan N**: "Application of the Behesda System for Cervical Cytology Reporting". J Fac Med Baghdad. J, , Baghdad Univ. 2006; 48 (1): 41-47..
  21. **Al-Alwan N**: "Cytopathology" in: Rasheed N et al : "Lectures in General Pathology for Third Year Medical Students". Fac. Med. Baghdad Univ. 1<sup>st</sup>. ed. 2006; , pp: 183-193.
  22. Al-Shimmary I and **Al-Alwan N**: "Significance of Cervical Cytology (Pap smears) in the Detection of Precancerous Cervical Lesions". J. Fac. Med. Baghdad Univ. 2007 ; 49(3): 315-322.
  23. Al Atroushi S, Talal L & **Alwan N**: "Male Breast Lesions: A Review of 124 Cases Diagnosed by Fine Needle Aspiration Cytology". J. Fac. Med. Baghdad Univ. 2008; 50 (3): 365-371.
  24. **Al-Alwan N**: "Early Detection of Breast Cancer in Iraq, Medical Educational Guide-line Manuel". Department of Research and Development , MoHESR , 2009. دليل التوعية حول الكشف المبكر عن سرطان الثدي في العراق.
  25. **Alwan N**: "Iraqi Breast cancer: A Review on Patients' Demographic Characteristics and Clinicopathological Presentation.". J. Fac. Med. Baghdad Univ. 2010; 52 (1): 105-110.
  26. **Alwan N** and Al-Rufaaee F: "Comparative Demographic and Clinico-pathological Study on the behaviour of Mammary Carcinoma in Three Iraqi Governorates". J. Fac. Med. Baghdad Univ. 2010; 52 (4): 420-424..
  27. **Alwan N**: "Breast Cancer: Demographic Characteristics and Clinico-pathological Presentation of Patients in *Iraq*". EMHJ, WHO, Eastern Mediterranean Regional Office, 2010; 16(11): 1059-1164.
  28. **Alwan NAS**: "Breast cancer incidence among Iraqi women profiled." American Association for Cancer Research. ScienceDaily. ScienceDaily, 11 March 2010.
  29. **Al-Alwan N**: "Early Detection of Cervical Cancer & its Precursors in Iraq, Medical Educational Guide-line Manuel". Department of Research and Development , MoHESR , 2011. التوعية و الارشادات الصحية للسيدات حول الكشف المبكر عن سرطان عنق الرحم في العراق.
  30. **Alwan N**, al-Attar W, Eliessa R, Al-Midfaei Z & Nidhal F:" Knowledge, Attitude and Practice regarding Breast Cancer and Breast Self-Examination among a Sample of the Educated Population in Iraq". EMHJ, WHO, EMRO, 2012; 18 (4): 337-345.
  31. **Alwan N**, al-Attar W, Eliessa R, Al-Midfaei Z & Nidhal F: " معارف و ممارسات النساء في الجامعات العراقية حول الفحص الذاتي للثدي ". EMHJ, WHO, Eastern Mediterranean Regional Office, 2012; 18 (7): 742-748
  32. **Alwan N** & Abdul Kareem S: "Demographic Profile of Patients Diagnosed with Breast Cancer in Iraq". Annual Book, J Diyala Res Cen of Childhood & Motherhood. Vol 7, 2012 (pp 3-16).
  33. **Alwan N** & Abdul Kareem S: "Prevalence of BRCA 1 and Ki 67 Expressions in a Sample of Iraq Patients Diagnosed with Breast Cancer: Correlation with their Demographic and Clinical Profiles". Iraqi Med J. 2012 (No 365, dated 10-6-2012).
  34. **Alwan N**: "Initiating a Regional Comparative Breast Cancer Research Program in the Eastern Mediterranean Region". Proceedings of the 6<sup>th</sup> International Conference on Healthy Issues in Arab Communities, Dearborn, Michigan, USA., 15-17 Oct 2012.
  35. **Alwan N**, Al-Diwan J, Al-Attar W & Eliessa R: "Knowledge, Attitudes and Practice towards Breast Cancer and BSE in Kirkuk University, Iraq". Asian Pacific Journal of Reproduction, Elsevier, 2012; 1 (4): 308-311.
  36. **Alwan N** and Al Mukhtar S: "Promoting Medical Education and Scientific Research in the Field of Medical Specialization". Proceedings of the International Conference of Higher Education Reform in Iraq, 2013. MoHESR in collaboration with NISA "Network of Iraqi

Scientists Abroad". 27-29/11/2012

37. **Alwan N** : "Early Detection and Research as Basic Pillars for Breast Cancer Control among Iraqi Women". Proceedings of the 4th Scientific Conference, Motherhood & Childhood Research Center, Dyala, Iraq. 5-6 De. 2012.
38. **Alwan N**: "Medical Guidelines for Iraqi Women on the Techniques of Early Detection of Breast Cancer". Iraqi National Cancer Research Center / Baghdad University in collaboration with the Department of Research and Development, MoHESR, 2013.
39. Sankar R, **Alwan N** & Denny L: "How Can We Improve Survival from Breast Cancer in Developing Countries?" Future Medicine, Breast Cancer Management, 2013, 2 (3): 179-183.
40. **Al Alwan N**: "Global Variations in Breast Cancer Statistics Focusing on Iraq". Annual Book, J Diyala Research Center of Childhood & Motherhood. Vol 87, No (2): 2013.
41. Von Karsa L, Qiao Y, Ramadas K, Keita N, Arrossi S, Boyle P, **Alwan N** and Sankaranarayanan R. Prevention/Screening Implementation, in Stewart BW and Wild CP (eds): World Cancer Report 2014. Lyon, France, World Health Organization International Agency for Research on Cancer, 2014
42. Miller A and **Alwan N**: "Screening and Early Detetion of Breast Cancer in the Eastern Mediterranean Region". Proceedings of the Regional Meeting on Cancer Control and Research Priorities in the Mediterranean Region, WHO in collaboration with IARC, Doha, Qatar, 20-22 Oct 2013.
43. **Alwan N**, Sankaranarayanan R & Fadhil I: "Initiating Regional Comparative Breast Cancer Research in the Eastern Mediterranean Region." ACCESS Health Journal, USA, Fall 2013; 70-74.
44. Gaaib JN, Al Faisal AHM, **Al Alwan N** & Tobal K: "Evaluating the Diagnostic and Prognpstic Value of Human Mammoglobin (MGB1) Gene Expression in Iraqi Breast Cancer Patients". International Journal of Advanced Research. 2014; 2 (4): 663-669.
45. **Al Alwan NAS** and Mualla FHM: Promoting Clinical Breast Examination as a Screening Tool for Breast Cancer in Iraq. Iraqi National Journal for Nursing Specialities, 2014; 27 (1): 76-82.
46. Al Faisal AHM, Gaaib JN, **Al Alwan N** & Ghanim M: 'Evaluating the Diagnostic and Prognpstic Value of Cytokeratin 19 Gene Expression in Iraqi Breast Cancer Patients". International Journal of Current Research". 2014; 6 (4): 6346-6351.
47. **Alwan N**: "Iraqi Initiative of a Regional Comparative Breast Cancer Research Project in the Middle East", Journal of Cancer Biology & Research, 2014; 2 (1): 1016 – 1020.
48. Ali SHM, **Al Alwan NAS** & Al Alwany SHM : "Detection and Genotyping of Human Papillomavirus in Breast Cancer tissues of Iraqi Paiens". EMHJ, WHO, Eastern Mediterranean Regional Office, 2014; 20 (6): 229-234.
49. Abduljabbar M, Ali S and **Al Alwan N**: Immunohistochemical Expepression of ER/PR in Cytologica and Histopathological Preparation of Infiltrative Ductal Carcinoma of the Breast. J. Fac. Med. Baghdad Univ. 2014; 56 (1)
50. **Al Alwan N**, Hussain I, Wahid HA et al: Evaluating the Accuracy of the "Breastlight" as a Screening Tool for Breast Cancer in Iraq. International Journal of Advanced Research Research. 2014 ; 2 (10): 522-531.
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54. **Al Alwan N**: Establishing Guidelines for Early Detection of Breast Cancer in Iraq. Int. J. of Advanced Research. 2015. 3 (12): 539-555
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59. Asghar AL, **Alwan NA** and Inaam I: Initiating Opportunistic Breast Cancer Screening Program for Asymptomatic Self-Referring Women in Iraq. J.Fac, Med, Baghdad, 2016; 58 (4): 342-347.
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62. Abdulla KN, **Alwan NAS** and Al Attar WM: Effects of Awareness and Knowledge on Breast Cancer among Intellectuals Affiliated to an Iraqi Ministry. *International Journal of Scientific and Research Publications*, 2016; 6 (4), 730-733.
63. **Alwan NAS**: Breast Cancer among Iraqi women: Preliminary Findings from a Regional Comparative Breast Cancer Research Project. *Journal of Global Oncology, ASCO*, 2016; 2 (5): 255-258.
64. Mezaal MI, **Alwan N**, Aziz I H, & Shalal MM: Prevalence of Human Papilloma Virus Gene Ine Mutations in Cervical cells among Iraqi Patients with Abnormal Pap smears. *Iraqi Journal of Biotechnology*, Acceptance letter No. 202, dated 25-9--2016).
65. Mezaal MI, Aziz I H, **Alwan N** & Shalal MM: Prevalence of Human Papilloma Virus in Cervical cells among Patients with Abnormal Pap smears. *Int. J. of Advanced Research*, (Acceptance letter No. IJAR 11326 dated 10-7-2016).
66. **Alwan NAS**, Ghanim M, McDonald F: Low Prevalence of BRCA1 and BRCA2 Common Founder Mutations among Iraqi Breast Cancer Cases and At Risk Families. *J J Cancer Sci Res*. 2016, 2(7): 047
67. Alsaedi MA, **Al-Alwan NAS**, Al-Faisal AH & Al Fartusi A: Expression of APEX1 Gene in Specimens of Iraqi Patients with Lung Cancer. *Journal of Medical Science & Clinical Research*. (Acceptance letter:1 Nov. 2016).
68. Alsaedi MA, Al-Faisal AH, **Al-Alwan NAS**, & Al Fartusi A: Detecting mRNA Expression of LUNX Gene by RT-PCR in Lung Cancer Specimens of Iraqi Patients. *Iraqi Journal of Biotechnology*. (letter dated 204 dated 22-11-2016).
69. **Alwan NAS**, Al-Attar WM, Al Mallah N, Abdulla K. . Assessing the Knowledge, Attitude and Practices towards Cervical Cancer Screening among a sample of Iraqi Female Population, *Iraqi Journal of Biotechnology*, 2016.
70. **Alwan NAS**, Al-Attar WM, Al Mallah N. Barriers to Baseline Needs for Early Detection of Breast Cancer among Iraqi Female Patients. *Iraqi National Journal of Nursing Specialties*. 2016; 29 (2): 1-11.
71. Ibraheem AI, Ahmed SS and **Alwan NAS**: The quantitative levels of seum BRCA1, total protein, albumin and serum protein electrophoresis as novel biomarkers of breast cancer. *World Journal of Pharmacy and Pharmaceuticals Sciences*, 2017; 6 (6): 43-57.
72. **Alwan NAS**, Al-Attar WM, Al Mallah N. Baseline Needs Assessment for Breast Cancer Awareness among Patients in Iraq, *International Journal of Science and Research (IJSR)*, Volume 6 Issue 1, January 2017, 2088 – 2093
73. Abboudy H, **Alwan NAS**: Assessment of Women's Knowledge About Breast Cancer Risk Factors and Early Detection at Ibn Rushd Faculty of Education of Baghdad University, *Iraqi National Journal for Nursing Specialities*, (*Letter of Acceptance No; 425 in 8-6-2017*).
74. **Alwan NAS**:. Family History among Iraqi Patents Diagnosed with Breast Cancer, *IJSR*, Volume 6 Issue 2, January 2017, 868-872
75. **Alwan NAS**: Clinical and Pathological Characteristics of Familial Breast Cancer in Iraq, *Chronicle Journal of Cancer Science*, 2017; 1 (1): 002
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79. **Alwan NAS**, Mualla F, Naqash M et al: Clinical and Pathological Characteristics of Triple Positive Breast Cancer among Iraqi Patients, *Gulf Journal of Oncology*, 2017; 25: 6-15.
80. Mezaal MI, Aziz IH, **Alwan N**. Prevalence of Human Papilloma Virus in Cervical Cells among Patients with Abnormal Pap Smears. *Int. J. Adv. Res*. 2017; 5 (12): 1393-1400
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82. Aliasghar A, **Alwan NAS**, Mohson KI and Khalel EA: Accuracy of Hopelight (Mammolight) Imaging in Detection of Breast Cancer. *International Journal of Science and Research*, 2017; 6 (8): 1731-1734.
83. **Alwan NAS**, Tawfeeq FN, Muallah FH. Breast Cancer Subtypes among Iraqi Patients: Identified By Their ER, PR and HER2 Status. *Fac Med Baghdad*, 2017; 59 (4): 304-307.
84. Tawfeeq FN, **Alwan NAS**, Khashman BM. Optimization of Digital Histopathology Image Quality. *IAES International Journal of Artificial Intelligence (IJ-AI)*, 2018; 7 (2): 71-77.
85. **Alwan NAS**, Kerr D. Cancer Control in War-Torn Iraq, *The Lancet Oncology*, 2018; 19 (3): 291-292
86. Mohson KI, **Alwan NAS**, Kareem JA: Concordance of Ultrasound and Fine Needle Aspiration Cytology Findings in BIRADS IV Breast Lesions. *International Journal of Science and Research (IJSR)*, 2018; 7 (\$):1644-1647.



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88. **Alwan NAS**. Tumor Characteristics of Female Breast Cancer: Pathological Review of Mastectomy Specimens Belonging to Iraqi Patients. *World Journal of Breast Cancer Research*, 2018; 1 (1): 1-3.
89. **Alwan NAS**, Abboudi H, Abdulsattar S. Demographic and Clinical study on Patients Referred to the National Cancer Research Center in Baghdad for Pap Smears. *J. Fac. Med. Baghdad*, 2018; 60 (4): 208-214.
90. Abdul Wahid HM, Azez E, **Alwan NAS**, Mammographic, Ultrasonographic and Pathological Correlations of Focal Asymmetric Breast Densities Among a Sample of Iraqi women. *Journal of Contemporary Medical Sciences*, 2019; 5 (3): 131-135.
91. Mohammed DR, **Alwan NAS**, Hussein R. Immunohistochemical Assessment of Estrogen, Progesterone, Receptor Contents and HER-2 neu Over Expression by Core Needle Biopsy in a Sample of Iraqi Breast Cancer patients . *Journal of Contemporary Medical Sciences*, 2019; 4 (4): 214-217.
92. **Alwan NAS**, Tawfeeq FN, Abdulsattar SY, Yihya F. Assessing the period between diagnosis of breast cancer and surgical treatment among mastectomized female patients. *International Journal of Medical Research & Health Sciences*, 2019; 8 (1), 2019.
93. Mahgoo FQ, Sahib MA, Qurtas DS, Ali BM, Auda DK, **Alwan NAS**. Comparative study on the Demographic, Clinical and Pathological Characteristics of Basal Cell Carcinoma among Patients in Baghdad and Erbil Cities in Iraq. *Indian Journal of Public Health Research & Development*, 2019; 10 (8): 218-223..
94. **Alwan NAS**, Tawfeeq FN, Mallah N. Demographic and clinical profiles of female patients diagnosed with breast cancer in Iraq. *Journal of Contemporary Medical Sciences*, 2019; 5 (1): 14-19.
95. Hobi BM & **Alwan NAS**: Bilateral Breast Cancer: Clinical Presentation and Pathological Characteristics in Iraqi Patients. Accepted for Publication, *Indian Journal of Public Health Research & Development*, 2019.
96. **Alwan NAS**, Mallah N, Khaity A, Khalaf T, Tariq S. The Actual Practice of Breast Self Examination among Sample of Iraqi Patients affected with Breast Cancer. Accepted for Publication, *Kindly Medical Journal*, 2019; 15 (2): 28-34.
97. Al-Gburi ASA and **Alwan NAS**. Correlation Between Breast Self Examination Practices and Demographic Characteristics, Risk Factors, and Clinical Stage of Breast Cancer among Iraqi Patients. *Open access Macedonian Journal of Medical Sciences*, 2019; 1-5.
98. **Alwan NAS**, Tawfeeq FN. Comparison of Clinico-Pathological Presentations of Triple-Negative versus Triple-Positive and HER2 Iraqi Breast Cancer Patients. *Open access Macedonian Journal of Medical Sciences*, 2019; 7(21):3534-3539.

### Supervision of Postgraduate Students:

- A Comparative Evaluation of Fine Needle Aspiration Cytology Versus Histopathology in Diagnosing Lymph Node Diseases. Thesis, Iraqi Board for Specialization in Surgery, 1991-1994..
- Ascitic Fluid Assessment in 122 Iraqi Adult Patients: A Prospective Cytopathological Study. Thesis, Iraqi Board for Specialization in Pathology, March, 1998-2000.
- Flow Cytometric DNA Ploidy, Cell Cycle Parameters and AgNOR Study in Iraqi Patients with Oral Squamous Cell Carcinomas. Ph.D. Thesis, College of Dentistry, University of Baghdad, 1997-2000.
- Cytological Diagnosis of Trichomonas Vaginalis in Pap smears. Thesis, Diploma in Cytology. Baghdad University, 1999-2000.
- Cytological and Colposcopic Findings of the Uterine Cervix in Women using Combined Contraceptive Pills. Thesis, Iraqi Board for Specialization in Obstetrics and Gynecology, 1999-2001.
- Assessment of Cervical Lesions Colposcopically, Cytologically and Histopathologically. M.Sc. Thesis. College of Medicine, Baghdad University, 2000-2002.
- Evaluation of Abnormal Cervical Pap Smears by Colposcopy and Histopathology. Thesis, Iraqi Board for Specialization in Pathology, 2000-2002.
- Atypical Glandular Cells of Undetermined Significance: A Comparative Colposcopic, Cytological and Histopathological Prospective Study. Thesis, Iraqi Board for Specialization in Obstetrics and Gynecology, 1999-2002.
- Significance of Ca 15-3 biomarker in Early and Metastatic Breast Cancer. M.Sc. Thesis, College of Medicine, Baghdad University, 2000-2002.
- A Clinico-Epidemiological Study of Females attending the Main Training Center for Early Detection of Breast Tumours. Thesis, . Iraqi Board for Medical specialization in Community and Family Medicine, 2002-2004.
- The Value of Ultrasound in Diagnosis of Breast lesions: a Comparative Clinico-Pathologic Study. Dissertation,, Diploma in Medical Radiodiagnosis., 2003-2004.
- Recording the Accuracy of Diagnosing Breast Lesions by Applying Triple Assessment Technique in a Referral Center for Early Detection of Breast Tumours. Thesis, Iraqi Board for Specialization in Pathology, 2001-2004 .

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- Recording the Significance of the Biofield Diagnostic System (BDS) in Early Detection of Breast Tumours. Thesis, Iraqi Board for Specialization in Surgery, 2004 - 2005 .
- Staging of Mammary Carcinoma: an Evaluation of 3000 Cases Collected from Different Iraqi Governorates. Thesis, Iraqi Board for Medical Specialization in Community and Family Medicine, 2004 - 2005 .
- Mammography versus Breast Ultrasonography in Diagnosing Breast Lesions. Dissertation,, Diploma in Medical Radiodiagnosis., 2005.
- Correlation of the findings of Biofield Breast Cancer Diagnostic System with Clinicopathological parameters of Iraqi Mammary Carcinoma. Thesis, Iraqi Board for Medical Specialization in Pathology 2006 – 2007
- Correlation of the Clinicopathological Presentations of Iraqi Breast Cancer Patients With the Findings of Biofield Breast Cancer Diagnostic System (BDS), HER-2 & Ki-67 cellular Expressions. PhD Thesis in Pathology, College of Medicine, Baghdad University, 2006 – 2009.
- Clinicopathological Findings related to P53 Tumor Marker in Premenopausal Patients with Breast Cancer. Thesis, Iraqi Board for Medical Specialization in Pathology 2007 – 2009
- Tumour Markers of Predictive and Prognostic Significance in Mammary Carcinoma. PhD Thesis in Pathology , College of Medicine, Baghdad University, 2007 – 2010.
- Comparative Demographic and Clinico-pathological Study on the behaviour of Mammary Carcinoma in Three Iraqi Governorates. M.Sc. Thesis in Pathology , College of Medicine, Baghdad University, 2008-2010.
- The Risk of Loco-regional Recurrence among Iraqi Breast Cancer Patients. Thesis, Iraqi Board for Medical Specialization in Community Medicine, 2007 - 2010
- Immunohistochemical Analysis for Estrogen, Progesterone Rreceptors, P53 Protein and Ki67 in Breast Cancer Biopsies inf Iraq and Syria. PhD Thesis in Pathology , College of Medicine, Baghdad University, 2008 – 2010.
- Correlation of the Frequency of Tumour marker Br Ca1 with the Clinicopathological Presentations of Breast Cancer Patients in Iraq. Thesis, Iraqi Board for Medical Specialization in Pathology, 2009 – 2011.
- Correlation of the findings of Breast Ultrasonography, Digital Mammography and FNAC in impaplplable Breast Cancer. Thesis, Iraqi Board for Medical Specialization in Radiology 2011.
- Demonstration of Human Papilloma Virus infection in Cervical Biopsies of Iraqi Patients complaining of Cervical Erosion. M.Sc. Thesis in Pathology , College of Medicine, Baghdad University, 2012-2013..
- Pap smear Cytology, Colposcopy and HPV detection as screening tools for Cervical Cancer in Iraq. Thesis, Iraqi Board for Medical Specialization in Gynecology, 2012-2013.
- Immunocytochemical Assessment of Estrogen, Progesterone Receptor Contents and HER2-neu Over Expression in a sample of Iraqi Breast Cancer Patients: Thesis, Iraqi Board for Medical Specialization in Pathology, 2012- 2013..
- Evaluation of Estrogen, Progesterone Receptor Contents and HER2-neu Over Expression in a Tru cut specimens of Breast Cancer Patients: Thesis, Arabici Board for Medical Specialization in Surgery, 2012-2013.
- Evaluating the Diagnostic and Prognpstic Value of Human Mammoglobin (MGB1) and Cytokeratin 19 Gene Expressions in Iraqi Breast Cancer Patients. PhD thesis. College of Applied Medical Science, 2013
- Demonstration of ER & PR Expressions in Needle Aspirates Cytological Specimens of Breast Cancer Patients in Iraq M.Sc. Thesis in Pathology , College of Medicine, Baghdad University, 2013.
- Detection of Free Radicles in Biopsy Specimens of Breast Cancer Tissues. PhD. Thesis. in Pathology College of Technology, Technical Institute, 2012-2013.
- Prevalence of serum Her-2/ neu , soluble FAS protein & CA15-3 Tumour Markers in Breast Cancer Patients: Correlation with the clinico-pathological parameters. PhD.. Thesis in Pathology / Biochmistry, 2013-2014.
- Correlation between Ki 67 , P52, Endocan and grade of the tumour in Oral carcinoma. PhD.. Thesis in Pathology, College of Dentistry, 2013-2014.
- Correlation of BRCA1Oncogen Expression in Breast Cancer Specimens from Patients with Positive Family History. M.Sc. Thesis in Pathology , College of Medicine, Baghdad University, 2014-2015.
- Prevalence of Human Papilloma Virus in Cervical cells among Patients with Abnormal Pap smears: A Study at the Molecular Level. Institute of Genetic Engineering, Baghdad University. PhD Thesis. 2015-2017
- Benefit of high risk HPV with liquid based Pap smear (co-testing) as a primary screening tool for cervical cancer Thesis, Arabic Board for Medical Specialization in Gynecology. 2015-2016.
- Expression ans Polymprphism of the Genes LUNX and APEX1 in Lung Cancer of Iraqi patiets, Institute of Genetic Engineering, Baghdad University.PhD Thesis, 2015-2017.
- Correlation between Age, Date of Diagnosis and Stage of Breast Cancer among Patients in Iraq, Thesis, Arabic Board for Medical Specialization in Pathology, 2016-2017

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- Immunohistochemical Assessment of Estrogen, Progesterone, Receptor Contents and HER-2 neu Over Expression by Core Needle Biopsy in a Sample of Iraqi Breast Cancer patients . Thesis, Iraqi Board for Medical Specialization in Pathology, 2016-2017.
- Correlation between BRCA1, ER, PR, and HER2 expressions with age, family history, stage, grade and type of breast cancer patients in Iraq. Thesis, Iraqi Board for Medical Specialization in Pathology, 2016-2018
- Performance Status Assessment among Iraqi Cancer Patients Following Cell Autophagy during Starvation. PhD Thesis, Baghdad College of Medicine, 2017-2020.
- Comparative study on the Demographic, Clinical and Pathological Characteristics of Basal Cell Carcinoma among Patients in Baghdad and Erbil Cities in Iraq. Thesis, Cancer screening Fellowship. 2018-2019.
- Bilateral Breast Cancer: Clinical Presentation and Pathological Characteristics in Iraqi Patients. Thesis, Cancer screening Fellowship. 2018-2019.
- Treatment Follow Up among Iraqi Patients Diagnosed with Breast Cancer, Thesis, Iraqi Board for Medical Specialization in Pathology, 2018-2020.
- Correlation Between Breast Self Examination Practices and Demographic Characteristics, Risk Factors, and Clinical Stage of Breast Cancer among Iraqi Patients. Thesis, Cancer screening Fellowship. 2018-2019.
- Opportunistic Screening for Early Detection of Breast Cancer in Iraq, Thesis, Cancer screening Fellowship. 2019-2020.

### **Memberships of International and Local Committees / Associations:**

#### ***Internationally:***

- Fellow, International Union Against Cancer (UICC), Geneva–Switzerland (1996--).
- Member, International Academy of Pathology (IAP) - Arab Division (1996--).
- Member, International Network for Control of Gynecological Cancers (INCGC), Geneva-Switzerland (1999--).
- Member, Euro-Arab School of Oncology (EASO), Scientific Committee (2005--).
- Member, Mediterranean Oncology Society (2006...).
- Member, Egyptian Cancer Society (2006...).
- Member, Global Cancer Control Committee (GCCC), International Union Against Cancer (UICC), Geneva (2007...).
- Member, South & East Mediterranean College of Oncology (SEMCO), (2008...).
- Member, Eastern Mediterranean Regional Alliance for Cancer NGOs (EMRA) (2008..).
- Member, International Network for Cancer Treatment & Research (INCTR) (2009..).
- Member, Gulf Cancer Society (KGCS) (2009...).
- Member, Advisory Committee of the Jordan Breast Cancer Program (2010..).
- Member, Eastern Mediterranean Non Communicable Disease Research Network, WHO/EMRO (2011..).
- Member, Breast Cancer Base Line Needs Assessment & Middle East Awareness Committee (2012..).
- Member, Editorial Board, Journal of Global Oncology Editorial Board, ASCO (2015..).
- Member, Editorial Board, Journal of Cancer Science Editorial Board, EMS Publishers (2017).

#### ***Locally:***

- National Coordinator, Iraqi Supreme Committee for Pathology Laboratory Accreditation (2018....).
- Chairperson, National Project Coordinator, IAEA Capacity Building Project to Support Cancer Diagnosis & Treatment in Iraq (2017...).
- Baghdad University Representative, Convention on the Elimination of All Forms of Discrimination Against Women Committee (2017...).
- Chairperson, Medical Ethical Research Committee, INCRC, MoHESR (2014..)
- Chairperson, Scientific Research Committee, ISRC/INCRC, MoHESR (2012..)
- Head, Medical Academic Consultative Committee for University Hospitals Construction and Administration (2014..).
- Executive Director, Capacity Building Health Project, MoH, MoHESR, WHO & EU (2013).
- MoHESR Representative, Iraqi Cancer Board, MoH (2013..)
- Chairperson, Executive Director, Iraqi National Breast Cancer Research Committee, MoHESR (2011..)
- Head, Medical Specialization Committee, Scientific Research Council, (2011..).
- Chairperson, Coordination Council, MoHESR in collaboration with MoH (2010..).
- Member, National Medical Education Committee (2015..),

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- Member, Professor Rights and Legislations Committee, MoHESR (2014..).
- Member, Quality Assurance Committee, MoHESR (2013...).
- Member of Babylon Medical Journal Editorial Board (2012..)
- Member, Iraqi Medical Journal Editorial Board (2009).
- Representative, Iraqi MoHESR, Supreme Committee for Awareness & Early Detection of Breast Cancer, General Secretariate for the Council of Ministers, Iraq (2008..).
- Member, National Council for Women, in charge of the Health Affairs, Iraq (2003)
- Member, Anti-Tuberculous and Chest Diseases Association, Iraq (1999--).
- Member, Reproductive Health & Family Planning Association, Baghdad, Iraq, (1998--).
- Member, Iraqi Medical Association, Scientific Committee, Baghdad, Iraq, (1984...).

### Active Participation in International Conferences, Workshops and Symposiums:

- The 5<sup>th</sup> Scientific Meeting of the International Academy of Pathology/Arab Division, Cairo, **Egypt**, 1993.
- The 8<sup>th</sup> Jordanian Medical Conference. Jordanian Medical Association, Amman, **Jordan**, October, 1994.
- Workshop on Cancer Epidemiology. International Agency for Research on Cancer IARC), **Lyon, France**, Sep. 1995.
- Workshop in Fine Needle Aspiration Cytology of Palpable Masses, Karolinska Hospital, **Stockholm-Sweden**, August, 1996.
- The 8<sup>th</sup> Scientific Meeting of the International Academy of Pathology/Arab Division, Amman, **Jordan**, September, 1996.
- The 10<sup>th</sup> Scientific Meeting of the International Academy of Pathology/Arab Division, **Alexandria, Egypt**, October, 1998.
- Symposium on the Significance of Screening for Cervical Cancer in Developing Countries, International Network for the Control of Gynecological Cancers (INCGC), University Hospital of **Geneva, Switzerland**, September, 1999.
- The 3<sup>rd</sup> International Conference of the Arab Thoracic Association, Amman, **Jordan**, November, 1999.
- The 5<sup>th</sup> IEA Eastern Mediterranean Regional Scientific Meeting, **Bahrain, October**, 2000.
- The 12<sup>th</sup>. Congress of the International Academy of Pathology, **Dubai**, November, 2000.
- The 3<sup>rd</sup>. Medical Conference of the Arab Physician Union, **Beirut, Lebanon**, March, 2001.
- Meeting on the Impact of Environmental Pollution on Man & Environment in Iraq, Iraqi Ministry of Health in collaboration with WHO, Baghdad, August, 2001.
- The 2<sup>nd</sup>. Arab Conference and Exhibition on Biotechnology & Genetic Engineering, **Bahrain**, April, 2002.
- Cancer Problem Solving Workshop, WHO (Head Quarters/Geneva) and EMRO / Egypt) in collaboration with the Iraqi Ministry of Health, 14-26 September 2002.
- Iraqi Women Symposium, organized by the UNDP/UNIFEM, 2003.
- Development of Emerging Civil Society: Perspectives of Cooperation with Arab and European Organizations. Friedrich Naumann Foundation & UNDP Iraq, **Amman, Jordan**, 8-11 December, 2003.
- Cancer Prevention and Early Detection, **Amman, Jordan**, 25-27 November, 2004.
- San Antonio Breast Cancer Symposium (poster presentation), **Texas, USA**, 8-11 December, 2004.
- National Cancer Institute, **Bethesda, Maryland, USA**, 6 December, 2004 (oral presentation on Iraqi Breast Cancer during a special meeting held for this issue with the NCI Epidemiology Group).
- International Conference on Primary Therapy of Early Breast Cancer, St. Gallen, **Zurich, Switzerland**, 26-29 January, 2005.
- Workshop on Oncopathology of Tumours, National Cancer Institute, **Cairo, Egypt**, 3-15 March, 2005.
- The 1<sup>st</sup>. National Workshop on Early Detection of Breast Cancer (participation as a national supervisor & facilitator). **Amman, Jordan** 8-11 August, 2005.
- Symposium on Liquid-Based Cytology, **Crawley, U.K**, 27-29 October, 2005.
- Scientific Meeting of the Challenge Fund, Euro-Arab School of Oncology (EASO), **Hammamet, Tunis**, 7-10 December, 2005.
- Arab Health Congress, **Dubai, United Arab Emirates**, 22-25 January, 2006.
- 1<sup>st</sup>. EASO Course on Advances in Clinical Oncology, **Cairo, Egypt**, 6-7 March, 2006.
- Scientific Committee Meeting of the EASO (Euro-Arab School of Oncology), Ministry of Foreign Affairs, **Rome, Italy**, 9 November, 2006.
- International Training Course Program on Early Detection of Breast Cancer (Supervisor & National Coordinator), Cairo NCI, **Cairo, Egypt**, 19 Nov. -7 Dec. 2006.

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- 16<sup>th</sup>. Annual conference- Changing Standards in Cancer Treatments, NEMROC Oncology Conference (Cairo university Medical College and Kasr Al-Aini Hospital), **Cairo, Egypt**, 1-4 December 2006.
- Health Profession Education in Iraq: Current Status and Strategies for Future, 1st National Workshop, WHO in collaboration with Iraqi MoH & MoHE, **Amman, Jordan**, 11-15 February 2007.
- 1<sup>st</sup> ASCO-SEMCO Educational Conference: Multidisciplinary Cancer Management Course, South & East Mediterranean College of Onology, **Cairo, Egypt**, 5-6 April 2007.
- Joint Program Review and Planning Mission, Government of Iraq & World Health Organization, Amman, Jordan, 19 - 23 August 2007.
- Workshop on Development of Family Medicine Training in Iraq, MoH in Collaboration with MoHE and WHO, **Amman, Jordan**, 10-13 September, 2007.
- Technical Consultation on Prevention and Control of Cancer in the Eastern Mediterranean Region (capacity as a WHO Temporary Advisor), EMRO/WHO, **Marrakech, Morocco**, 20-22 November 2007.
- 2<sup>nd</sup> SEMCO ASCO Conference: Advanced Course in Cancer Care in the Older Population. Ain Shams Training Centre, **Cairo, Egypt**, 26-28 March 2008.
- Consultative meeting to finalize the Regional Cancer Control Strategy and develop a Regional Framework for Country Action (capacity as a WHO Temporary Advisor). EMRO/WHO in collaboration with INCTR, **Cairo, Egypt**, 30 April – 1 May 2008.
- The IMA 38<sup>th</sup> Scientific Conference, Iraqi Medical Association, **Aleppo, Syria**, 5-7 April 2008.
- International Symposium on Cancer Prevention and Control, NIH in collaboration with NCI, Bethesda, **Maryland, USA**, 28 July 2008.
- First Middle East and North Africa Regional Breast Cancer Advocacy Conference. US Middle East Partnership Initiative (MEPI), **Amman, Jordan**, 31 Oct. – 2 Nov. 2008.
- Inter-country Meeting for the Adoption of the Regional Cancer Control Strategy (in the capacity as a WHO Temporary Advisor), EMRO/WHO in collaboration with INCTR, **Cairo, Egypt**, 15 – 18 Dec. 2008.
- INCTR 8<sup>th</sup> Meeting on Cancer in Countries with Limited Resources, **Antalya, Turkey**, 22-24 March 2009.
- IMAC Scientific Meeting, **Cairo, Egypt**, 7-9 March 2009
- WHO/IAEA Coordination and Planning Meeting with Member States on Cancer Control Strategy, Technical Cooperation Program for Asia & Pacific Region (in the capacity of PACT/IAEA Consultant), Vienna International Center, **Vienna, Austria**, 29 June-1 July 2009.
- UF 15<sup>th</sup> Annual Multidisciplinary Symposium on Breast Diseases & the 1st International Breast Health Education Program, **Cairo, Egypt**, 24-27 October 2009.
- Regional Training Seminar on Breast Cancer Support Groups, Susan G. Komen for the Cure (in the capacity of a Global Advocate). **Alexandria, Egypt**, 22-24 October 2009
- 8<sup>th</sup> Middle East Oncology Congress (in the capacity of PACT/IAEA Consultant), **Beirut, Lebanon**, 5-7 November 2009.
- 2nd AACR Dead Sea International Conference on Advances in Cancer Research: From the Laboratory to the Clinic, **Dead Sea, Jordan**, 7-10 March 2010.
- Regional Oncology Conference, **Istanbul, Turkey**, 19-20 May 2010.
- 1<sup>st</sup> Meeting of the Advisory Committee on the Jordan Breast Cancer Program (in the capacity of an International Advisor), **Amman, Jordan**, 12-13 June 2010.
- National Consultative Symposium on Strengthening Breast Cancer Screening in Sri Lanka (in the capacity of PACT/IAEA Consultant), **Colombo, Sri Lanka**, 4 August 2010.
- Early Detection and Management of Breast Cancer in the Developing World (in the capacity of a Keynote Speaker), **Colombo, Sri Lanka**, 4 August 2010.
- Ghana Breast Cancer Specialty Training Course (in the capacity of an International expert to IAEA/PACT and The Breast Health Global Initiative), **Accra, Ghana**, 27 August 2010.
- Women's Cancer 2011, **Beirut, Lebanon**, 20-22 January 2011.
- MENA Oncology Conference (Keynote speaker and panelist), **Cairo, Egypt**, 23-24 May 2011.
- Consultative Meeting on Building NCD Regional Research Agenda (in the capacity of WHO temporary advisor), WHO/EMRO, **Dubai, UAE**, 11-13 December 2011.
- International Conference on Cancer Control in Middle East & North Africa. Lalla Salma Assoc., in collaboration with WHO, **Marrakesh, Morocco**, 14-17 January 2012.
- Consultative Meeting on Base line Needs Assessment for Breast Cancer Care & Awareness in the Middle East. Susan G for the Cure Org. (in the capacity of a Principal Investigator from Iraq). **Sharm Al Sheikh, Egypt**, 20 January 2012.
- Consultative Meeting on the Regional Comparative Breast Cancer Research Program, (in the capacity of WHO Temporary Advisor &

## CURRICULUM VITAE

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- Principal Investigator), **Sharm al Sheikh, Egypt**, 21-22 January 2012.
- Iraqi Oncology Summit. **Istanbul, Turkey**, 22-24 August 2012.
  - The 6<sup>th</sup> International Conference on Health Issues in Arab Communities, Dearborn, **Michigan, USA**, 15-17 October 2012.
  - The 2<sup>nd</sup> World Cancer Online Conference, **Texas, USA**, 9-11 January 2013.
  - Global Women's Cancer Summit, World Cancer Day, **Washington, USA**, 4 February 2013.
  - Supporting Pathology & Laboratory Medicine Services in Iraq, International Meeting, The Royal College of Pathologists, **London, UK**, 16-20 September 2013.
  - Advanced Academic Training Course, WHO Collaborative Public Health Center, Imperial College London, **London, UK**, (20 August – 20 September 2013).
  - Consensus Workshop for Development of National Health Policy in Iraq, **Amman, Jordan** 8-9 October 2013.
  - The Regional Meeting on Cancer Control and Research Priorities in the Mediterranean Region, WHO in collaboration with IARC, **Doha, Qatar** 20-22 Oct 2013.
  - WHO Joint Planning Review Mission for Iraq (2014-2015) – representing MoHESR, **Amman, Jordan** 17 December 2013.
  - Follow-up Mission: EU/WHO Capacity Building Project to Support Health Services in Iraq, MoHESR Representative, **Amman, Jordan**, 18-19 December 2013.
  - Study Tour for Public Health Authorities and Health Professionals from Iraq to Finland: Field Visits to Finnish University Hospitals, Private Sectors and Primary Health Care Centers. **Helsinki, Finland**. Supervised by EU and WHO (6-16 June 2014).
  - Advanced Research Training Course, WHO Collaborative Public Health Center, Imperial College London, **London, UK** (8-19 December, 2014).
  - Breast Cancer in the Arab World Conference 2015. King Hussain Cancer Center, **Amman, Jordan**, 22-25 March 2015.
  - Strengthening Medical and Health Science Education and Research in Iraq. MoH, MoHESR in collaboration with WHO and the European Union, Sulaimaniya, 5-8 May 2015.
  - Analyzing Data of the Regional Comparative Breast Cancer Research Project, Expert visit, Screening Unit of International Agency for Research on Cancer (IARC) as a Principal Investigator, **Lyon, France**, 9-10 July 2015.
  - 1st International Conference of Primary Care and Public Health & 3rd international Congress of Person-Centered Medicine, Imperial College **London, UK**, 29-31 October 2015.
  - The 2<sup>nd</sup> Regional Meeting of the Comparative Breast Cancer Research Project in the Eastern Mediterranean Region, WHO/EMRO in collaboration with & the National Cancer Research Center, **Amman, Jordan**, 9-10 November 2015.
  - Consultative Meeting on Early Detection and Screening of Priority Cancers in the Eastern Mediterranean Region, WHO/EMRO, **Cairo, Egypt**, 14-15 January 2016.
  - 4<sup>th</sup> Annual Beirut Breast Cancer Conference, **Beirut, Lebanon**, 11-13 February 2016.
  - IAEA Meeting for aligning the New Iraqi CPF with the National Capacity Building Program for Radiotherapy and Nuclear Medicine, National Project Counterpart, **Vienna, Austria**, 18-22 July 2016.
  - Training Course on Leica Aperio AT2 Digital Pathology Scanner, **Frankfurt, Germany** (29 October -6 November 2016).
  - Merid Regional Event: Towards Enhancing Framework Conditions for Cooperation Between EU and the Middle East, National Scientific Research Council, **Beirut, Lebanon**, 1-2 December 2016.
  - Iraqi National Expert workshop for finalizing Projects Design of 2018-2019 Cycle, IAEA in cooperation with the Jordanian Atomic Energy Commission, **Amman, Jordan** 5-9 March 2017.
  - Iraqi British Conference on Trade and Investment, Iraqi Embassy to the United Kingdom, Gloucester Hote, **London, UK** 3-4 July 2017.
  - Breast Away Day, NHS Trust, BHR Hospitals, **London, UK** 19 September 2017.
  - WHO Regional Training Collaborative Center, Capacity Building in Research Methods and Ethics, Workshop on Good Health Research Practice, Pasteur Institute (Facilitator) **Tunis, Tunisia** 22-25 December 2017.
  - Introduction to International Laboratory Accreditation & Quality Assurance: Leaderships Workshop (National Coordinator), Royal College of Pathologists, **London, UK** 26-28 June 2018.
  - Breast Cancer Forum 2018, Royal College of Pathologists in collaboration with the Royal Society of Medicine, **London, UK** 13-14 September 2018.
  - Higher Education Conference for Iraqi Development, Embassy of the Republic of Iraq in the United Kingdom. **London, UK** 14 September 2018.
  - The Iraqi Environment and Health Society - UK (IEHS-UK), "Cancer and Environmental Pollution in Iraq (Keynote Speaker),

London, UK 24 March 2019..

- Spring Scientific Conference of the United Iraqi Medical Association UK and Ireland (Keynote Speaker), London, UK 30-31 March 2019..

### Active Participation in National Conferences, Workshops and Symposiums:

- The 6<sup>th</sup> Scientific Conference of the College of Medicine, Baghdad University, December, 1992.
- The 1<sup>st</sup> Cancer Conference, Iraqi Cancer Board, Ministry of Health, December 1993.
- The 7<sup>th</sup> Scientific Conference of the College of Medicine, Baghdad University, April, 1994.
- The 8<sup>th</sup> Scientific Conference of the College of Medicine, Baghdad University, April, 1995.
- The 1<sup>st</sup> Scientific Conference held by the Breast Cancer Early Detecting Unit, Baghdad University Medical College, May, 1995.
- The Day of Science, College of Medicine, Baghdad University, March, 1997.
- The 34<sup>th</sup> Iraqi Medical Conference, The Iraqi Medical Association,, Baghdad, 1998.
- The 35<sup>th</sup> Iraqi Medical Conference, The Iraqi Medical Association, , Baghdad, 1999.
- Nine Symposiums on the Significance of Early Detection of Breast Cancers in Iraqi Women, Family Planning Association, Baghdad, 1998-1999.
- A Symposium on the Significance of Early Diagnosis of Breast Tumours, Al-Shaikh Omar Health Centre, Family Planning Association, Baghdad, April, 1999.
- A Symposium on the Significance of Breast Self Examination and Fine Needle Aspiration Cytology of Breast Tumours. Al-Habibia Hospital, Baghdad, August, 1999.
- Workshop on a Pilot Study Demonstration Project of Screening for Breast cancer in Iraq, WHO and the Ministry of Health, Baghdad, Iraq, June 1999.
- WHO Workshop on the Evaluation of Cancer Control in Iraq. World Health Organization in MoH, Baghdad, August, 1999.
- The 14<sup>th</sup> Cancer Conference, Iraqi Cancer Board, Ministry of Health, Baghdad, March, 2000.
- Meeting on the Significance of Colposcopy and Cervical Cytology in Relation to Cervical Cancer Control (preparation for starting the WHO pilot study project in Al-Yarmouk Hospital), Mustansiriya University Medical College, Baghdad, April, 2000
- .Symposium on the Significance of Pathological Diagnosis of Cancer in Iraq, Pathology Department, Baghdad University Medical College, April, 2000.
- The 12<sup>th</sup>. Scientific Conference, College of Medicine, Baghdad University, November, 2000.
- Detailed lecture on Early Detection of Breast & Cervical Cancers, Diplomats Wife Association in Baghdad, February 2001.
- The 36<sup>th</sup>. Iraqi Medical Conference, Iraqi Medical Association, Baghdad, February, 2001.
- Scientific Seminar on Early Detection of Breast Cancer, Iraqi Cancer Board, Ministry of Health, March, 2001.
- The 10<sup>th</sup>. Scientific Conference , College of Dentistry, Baghdad University, April, 2001.
- Scientific Seminar on Early Detection of Cervical Cancer, Iraqi Cancer Board, Ministry of Health, 2001.
- Training course on the National Program for Early Detection of Breast Cancer, Ministry of Health (supervised by H.E. the Minister of Health), May, 2001.
- The 13<sup>th</sup>. Scientific Conference , College of Medicine, Baghdad University, 2001.
- The 1<sup>st</sup>. Specialized Iraqi Conference on Breast Diseases, Kindy college of Medicine, Baghdad University, October, 2001.
- Scientific lecture on the Significance of Breast Self Examination in the Early detection of Breast Cancer, General Federation of Iraqi Women, Baghdad, 2001.
- Six Scientific lectures on Early Detection of Breast Cancer, Red Crescent Association, Baghdad, during the years 2001 & 2002.
- Supervision of the 1<sup>st</sup>. Training Course on Cytopathological Diagnosis of Breast Cancer, Cytopathology Unit within the Main Training Center, Medical City Teaching Hospital, August-September 2001.
- Extended Scientific Medical Conference in Reproductive Health, Family Planning Association, Baghdad, December, 2001.
- Scientific Conference on the Impact of Polusion on Health & Environment in Iraq, Al Rasheed Hotel, Baghdad, March, 2002.
- Scientific Meeting on the Evaluation of the National Program for Early Detection of Breast Cancer following a one year experience, ( supervised by the Minister of Health, MOH, Baghdad, June, 2002.
- Brief introduction on the activities of the National Campaign designed for Early Detection of Breast cancer in Iraq, UNDP Office, Baghdad, June, 2002.
- Supervision of a training course on the Cytopathologic Diagnosis & Early Detection of Breast Diseases, Main Training & Preventive Center, Medical City Teaching Hospital, Baghdad, August, 2002.
- Scientific Seminar on the National Campaign for Early Detection of Breast Cancer Introduction to the Medical & Scientific Program), the Scientific Iraqi Academy, November, 2002.
- The 13<sup>th</sup>. Scientific Conference, Baghdad Medical College, February, 2003.
- Symposium on Carcinoma of the Breast. Department of Surgery-Baghdad University Medical College in Collaboration with the Main

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Training Center for Early Detection of Breast Cancer , Medical City Teaching Hospital, 4 December, 2003.

- 1<sup>st</sup>. Scientific Conference held by the Iraqi Medical Specialty Forum, Conventional Center, Baghdad, 14-17 February 2004.
- 1<sup>st</sup>. Constitutional Conference held by the National Council for Women, Elwiya Club, Baghdad, 21 Feb. 2004.
- 1<sup>st</sup>. National Symposium on Early Detection of Breast and Cervical Cancers. The National Campaign for Early Detection of Breast Cancer in collaboration with Movimondo (Italian Non-Governmental Organization), Conference Hall, Medical City Teaching Hospital, Ministry of Health, 11 October, 2004.
- The First International Symposium on Breast Cancer: Pathology & Updates in Treatment Modalities (product of the Memorandum of Understanding between the University of Mississippi Medical Center & Salahaddin University), Erbil-Kurdistan, Iraq, 23-24 April 2005.
- The 1<sup>st</sup>. National Symposium for Nurses on the Significance of Breast Self Examination and other Diagnostic Modalities in Early Detection of Breast Cancer (Supervisor & Facilitator), The National Campaign for Early Detection of Breast Cancer in collaboration with Movimondo, Ministry of Health, Iraq, 11 May, 2005.
- Scientific Symposiums on the Significance of Cytopathological Diagnosis in the Early Detection of Breast Cancer, Medical College, Baghdad University, April 2006.
- The 2<sup>nd</sup> National Workshop and Symposium of the Iraqi National Program on Early Detection of Breast Cancer: Initiation of a Breast Cancer Screening Trial in Erbil (Supervisor & Facilitator), Iraqi MoH in collaboration with Kurdistan MoH & WHO, Erbil-Kurdistan, 15-18 April 2007.
- Scientific Seminar on the implementation of the National Cancer Control Programmes in Iraq, MoH in collaboration with WHO, Baghdad, 16 October 2007.
- The 1<sup>st</sup>. National Conference on Continuing Professional Development and Continuous Medical Education in Iraq, MoH, Al-Rasheed Hotel, Baghdad, 11-12 January 2008.
- Field Visit to the Specialized Clinic of Early Detection of Breast Cancer (Team Supervisor), Najaf province, 3 March 2008.
- The 1<sup>st</sup>. National Seminar on Early Detection of Breast Cancer for Employers of the General Secretariat of the Ministers' Council (Supervisor), General Secretariat of the Ministers' Council Main Conference Hall, Baghdad, 14 May 2008.
- The 1<sup>st</sup>. Training Course for Teachers / Ministry of Education on the Significance of Early Detection of Breast Cancer and the Technique of Breast Self Examination (BSE), Training and Developing Center, MoH, Baghdad, 21-22 May 2008.
- Field Visit to the Specialized Clinic of Early Detection of Breast Cancer (Team Supervisor), Karbala province, 21 August 2008.
- Field Visit to the Specialized Clinic of Early Detection of Breast Cancer (Team Supervisor), Hilla province, 22 August 2008.
- The Extended Seminar and 3<sup>rd</sup> National Workshop on Early Detection of Breast Cancer (Supervisor & Chairperson), MoH, Al-Milia Mansour Hotel, Baghdad, 29-31 August 2008.
- National Workshop on Advances in Gynecology & Obstetrics, IMC in collaboration with MoH, Al Rasheed Hotel, 20-22 October 2008.
- The Comprehensive National Training Course for key Health Professionals working in PHC Centers, Training and Developing Center, MoH, Baghdad, 11-13 November 2008.
- The 2<sup>nd</sup>. Training Course for Teachers / Ministry of Education on the Significance of BSE (Supervisor & Facilitator), Training and Developing Center, MoH, Baghdad, 25-26 November 2008.
- The 2<sup>st</sup>. National Seminar on Early Detection of Breast Cancer for Employers of the General Secretariat of the Ministers' Council (Supervisor), General Secretariat of the Ministers' Council Main Conference Hall, Baghdad, 21 December 2008.
- The 1<sup>st</sup> National Symposium on the Significance of Early Detection of Breast Cancer for Journalists and Reporters, MoH & MoHESR in collaboration with the General Secretariat for the Council of Ministers (Supervisor & Chairperson), Al Rasheed Conference Hotel, 25-26 March 2009.
- The 1<sup>st</sup> Scientific Seminar of the MoHESR announcing the Initiation of MoHESR National Breast Cancer Research Program (Chairperson), MoHESR Conference Hall, 23 April 2009.
- The 2<sup>st</sup> Scientific Seminar of the MoHESR for University Female Students on the Importance of Early Detection of Breast Cancer (Supervisor & Keynote presentation), Bag. Univ., Al-Hakeem Conference Hall, 30 April 2009.
- The 3<sup>rd</sup> Scientific Seminar of the MoHESR on the Significance of Breast Cancer Research (Chairperson, Supervisor & Keynote presentation), College of Agriculture Conference Room, 28 May 2009.
- The 1<sup>st</sup> Scientific Symposium of the Ministry of Science & Technology (MoST) on the Significance of Early Detection of Breast Cancer (Chairperson, Supervisor & Keynote presentation), MoHESR in collaboration with MoST, MoST Conference Hall, 15 June 2009.
- The Iraqi National Radiation Protection Symposium, Common Secretariat for the Council of Ministers (MoHESR Representative), Milia Hotel, 4 October 2009.
- The 1<sup>st</sup> Scientific Symposium announcing the initiation of the Activities of the Iraqi National Cancer Research Program, MoHESR in collaboration with the Parliament's Women & Education Committees (Supervisor and Keynote presentation), the Iraqi Parliament, Conference Hall 1, 13 October 2009.
- The 14<sup>th</sup> Scientific Conference (Keynote Lecture Presentation on Initiating National Cancer Control Strategy in Iraq), Baghdad University Medical College, 14-15 April 2010.
- Opening Ceremony, Iraqi National Breast Cancer Research Center (Chairperson) under auspice of H E the Minister of Higher



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Education & Scientific Research, Breast and Cervical Cancer Research Unit, Baghdad Medical College, 10 May 2010.

- Early Detection of Breast Cancer as a Major Approach to Breast Cancer Control Strategy in Iraq, Scientific Seminar of Baghdad University Medical College (Supervisor, Chairperson & Keynote Lecture Presentation), Main Conference Hall, Baghdad Medical College, 14 October 2010.
- Significance of Early Detection of Breast Cancer in Iraq, 1<sup>st</sup> Scientific Symposium of Al-Mustansereyya University (Supervisor, Chairperson & Keynote Lecture Presentation), Al-Mustansereyya University Conference Hall, Baghdad, 18 October 2010.
- 1<sup>st</sup> Scientific Symposium of the Middle Euphrates Iraqi Provinces on the Initiation of Breast Cancer Research Program in Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Al-Hakeem Kufa University Conference Hall, Al-Nagaf Al-Ashraf, 28 October 2010.
- 1<sup>st</sup> Scientific Symposium of the Northern Iraqi Provinces on the Initiation of Breast Cancer Research Program in Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Kirkuk Cultural Centre Conference Hall, Kirkuk, 21 December 2010.
- 1<sup>st</sup> Scientific Symposium of the Nursing Colleges and Technical Institutes on the Initiation of Breast Cancer Control strategy in Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Breast and Cervical Cancer Research Unit, Baghdad Medical College, 12 January 2011.
- 1<sup>st</sup> Scientific Seminar of Al-Nahrain College on the Significance of Early Detection of Breast Cancer in Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Al-Salam Conference Hall, Al-Nahrain University, Baghdad, 24 February 2011.
- 1<sup>st</sup> National Symposium of MoHESR & MoH on Initiating the Implementation of Cervical Cancer Control Strategy in Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Breast and Cervical Cancer Research Unit, Baghdad Medical College, 2 May 2011.
- 1<sup>st</sup> Scientific Workshop of The Iraqi National Breast Cancer Research Program in Kurdistan/Iraq (Supervisor, Chairperson & Keynote Lecture Presentation), Erbil Cultural Conference Hall, Hawler Medical University, Erbil, 11 May 2011.
- 1<sup>st</sup> Training Course on Breast Self Examination for Post-graduate Students of Baghdad College of Nursing (Supervisor, & Chairperson), Iraqi National Breast Cancer Research Program, Breast and Cervical Cancer Research Unit./MoHESR and the Main Training Center for Early Detection of Breast Diseases/Medical City/MoH., 29-30 June 2011.
- A National Scientific Seminar on the Plan of Action of the Iraqi National Breast Cancer Research Program and Promotion of Research at the Regional Level (Supervisor, Chairperson & Keynote Lecture Presentation), Conference Hall, Breast and Cervical Cancer Research Unit, Baghdad Medical College, 24 October 2011.
- 2<sup>nd</sup> Training Course on the Significance of Breast Self Examination & Early Detection of Breast Cancer for Midwifery Specialization/ Baghdad Nursing Colleges (Supervisor, Chairperson & Keynote Lecture Presentation), Breast and Cervical Cancer Research Unit,, /MoHESR and the Main Training Center for Early Detection of Breast Diseases/Medical City/MoH., 3 November 2011.
- 3<sup>rd</sup> Training Course on the Significance of Breast Cancer Control in Iraq (for Students of the Nursing College, Motherhood and Childhood Specialization - Supervisor, Chairperson & Keynote Lecture Presentation), Breast and Cervical Cancer Research Unit,/ MoHESR & the Main Training Center for Early Detection of Breast Diseases/Medical City/MoH., 27-28 Dec 2011.
- 3<sup>rd</sup> Annual Symposium of the National Early Detection Cancer Center, MoH, Baghdad, Iraq, 5 March 2012.
- "1<sup>st</sup> National Workshop of the Iraqi National Breast Cancer Research Program", under auspice of H E Minister of Higher Education & Scientific Research (Organizer & Supervisor), MoHESR Main Conference Hall, 19-20 March 2012.,
- 1<sup>st</sup> Scientific Seminar of The Iraqi National Breast Cancer Research Program in Basra Province, (Supervisor, Chairperson & Keynote Lecture Presentation), Basra, College of Medicine, 30 April 2012.
- Current Activities in the Management of Breast Cancer in Iraq. National Early Detection Cancer Center, MoH, Baghdad, 8 October 2012..
- National Coordinating Workshop of the MoH/MoHESR in Iraq: Resolving Current problems. Ishtar conferenc Hall, Sheraton, 15-16 October 2012.
- International Conference for Promoting Higher Education in Iraq, Al Hakeem Conference Hall, Baghdad University, 27-29 Nov, 2012.
- Medical City & Baghdad Medical College Joint Conference, Medical City Complex, Baghdad, 28-29 November, 2012.
- Iraq University Linkage Program "IREX", Research Workshop, Sally Port, Compound, Baghdad, 4-5 December 2012.
- 4<sup>th</sup> Annual Conference of the Human Resource Development & Research Center, MoH, Milia Hotel, Baghdad, 6-8 December 2012.
- Recent Technical Advances in Early Detection of Breast & Cervical Cancer, Health and Medical Technical College (Supervisor, Chairperson & Keynote Speaker), Conference Hall, Baghdad, 8 January 2013.
- The 4<sup>th</sup> Teraining Course for Nurses on the techniques of Physical Breast Examination Breast Self Examination, (Supervisor, Chairperson & Keynote Speaker). Iraqi National Cancer Research Center, 28 February 2013.
- The 1<sup>st</sup> Project Steering Committee meeting of the Joint Program to Support Health Services in Iraq, WHO- European Union in collaboration with MoH, MoHESR, MoP. MoF, MoE and the Medical Syndicates, Iraqi National Cancer Research Center Conference Hall, Baghdad, 5-6 March 2013.
- The 2<sup>nd</sup> Scientific Symposium on the importance of Breast Cancer Screening in Iraq for the Ministry of Science & Technology (Organizer, Key-note speaker), Ibn Al Haitham Conference Hall, MoST, Baghdad, 19 March 2013.
- The 1<sup>st</sup> Workshop on establishing Capacity Building Work Plans to support Health Services in Iraq, WHO in collaboratoion with EU,

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MoH, MOHESR and other state Ministries, Milia Mansour Hotel, 19-20 March 2013.

- The 1<sup>nd</sup> Scientific Symposium on the importance of Breast Cancer Screening in Iraq for the Ministry of Labour & Scientific Affairs (Organizer & Keynote Speaker), Ministry of Labour & Scientific Affairs Main conference Hall, MoST, Baghdad, 25, April 2013.
- The 2<sup>nd</sup> Workshop of the Iraqi National Breast Cancer Research Program in Kurdistan: Training on Online Breast Cancer Data Base, Sulaimaniyya (Organizer & Keynote Speaker), 29-30 May 2013.
- The 1<sup>nd</sup> Scientific Symposium on the significance of Breast Cancer Screening in Iraq for the Ministry of Transport (Organizer & Keynote Speaker), Ministry of Transport Main conference Hall, MoT, Baghdad, 27 June 2013.
- Scientific Symposium on Promoting Cancer Control Strategy in Iraq, Al Mustansiriya Medical College, (Organizer & Keynote speaker), MoHESR, Baghdad, 3 October 2013.
- The 1<sup>nd</sup> Scientific Symposium on the significance of Breast Cancer Screening in Iraq for participants of the Ministry of Oil (Organizer & Keynote Speaker), Ministry of Oil Conference Hall, Baghdad, 29 October 2013.
- The 4<sup>th</sup> Scientific Symposium on Breast Cancer Control, Tumour Hospital, Medical City Teaching Complex, 30 October 2013.
- The 1<sup>st</sup> National Workshop on Health & Medical Research (Organizer & Keynote Speaker), Sheraton Hotel, Baghdad, 2-4 Dec.2013.
- 2013 Annual Medical City Conference, Medical City Teaching Hospital Complex, Baghdad, 11-13 December 2013.
- The 1<sup>nd</sup> Scientific Seminar on the Prevention and Early Detection of Breast Cancer for affiliates of the Technical Colleges & Institutes of Zafaraniyya (Organizer & Keynote Speaker), Technical Institute Deanery, Main conference Hall, Baghdad, 19 March 2014.
- The 1<sup>nd</sup> Scientific Symposium on the Significance of Cancer Control & Screening in Iraq for female affiliates of the Ministry of Planning (Organizer & Keynote Speaker), Ministry of Planning, Main Conference Hall, MoP, Baghdad, 10 April 2014.
- The 1<sup>st</sup> Training Course on First Aid and Emergency Medical Services for affiliates of the Ministry of Higher Education and Scientific Research (Organizer & Keynote Speaker), National Cancer research Center, Medical city teaching complex, 21-23 September, 2014.
- Symposium Celebrating October Breast Cancer Awareness Month in collaboration with the International Federation of Iraqi Medical Students (Supervisor, Chairperson & Keynote Speaker), 23 October, 2014.
- The 1<sup>st</sup> Scientific Seminar on Promoting the National Strategy on Lung Cancer Control in Iraq (Organizer & Keynote speaker), 7 January, 2015.
- Consultative Meeting on Education Post 2015: Strategic Objectives. Nahrain Center for Strategic Studies, MoHESR in collaboration with UNESCO, Baghdad, 16 February 2015.
- 1<sup>st</sup> Annual Multi-Disciplinary Oncology Course (Moderator, Panelist & Speaker). Sulaymaniyah, Kurdistan, 20 – 24 February 2015.
- 2<sup>nd</sup> International Scientific Conference of Medical and Health Specialties (Keynote Speaker), Middle Technical University, 24-26 March 2015.
- The 1<sup>nd</sup> Scientific Seminar on Cancer Control for affiliates of Ibn Rushd Humanitarian Education Faculty, (Organizer & Keynote Speaker), Ibn Rushd College, Main Conference Hall, Baghdad, 15 April 2015.
- Strengthening Medical and Health Science Education and Research in Iraq (Organizer & Speaker). MoH, MoHESR in collaboration with WHO and the European Union, Iraq, Sulaimaniya, 5-8 May 2015.
- Celebrating Breast Cancer Awareness Month, Seminar (Organizer & Keynote Speaker), 26 October 2015.
- Recent Advances in Diagnosis and Treatment of Breast Cancer, Annual Medical City Conference (Keynote speaker), Medical City Teaching Hospital Main Conference Hall, 17 December 2015.
- Establishing a National Strategy for Early Detection of Cervical Cancer (Organizer & Keynote Speaker), Seminar Designed for the Nursing & Technical Colleges, National Cancer Research Center, 21 December 2015.
- Designing a National Strategy for Medical & Health Research in Iraq (Organizer & Keynote Speaker), National Cancer Research Center, 7 January 2016.
- Scientific Seminar Celebrating the World Cancer Day (Organizer & Keynote Speaker), National Cancer Research Center, 2 Feb. 2016.
- 3<sup>rd</sup> Scientific Conference of Kindy College of Medicine: Iraqi Breast Cancer Data Base: Demographic and Clinico –Pathological Study (Key speaker , Babylon Hotel, 2 March 2016.
- 2<sup>nd</sup> Scientific Seminar of the National Cancer Research Center: Smoking, the Main Risk Factor for Lung Cancer (Organizer & Keynote Speaker), Baghdad Nursing College, 9 March 2016.
- Scientific Conference of the Technical Institute: Knowledge, Attitude and Practices related to Cervical Cancer Risk Factors and Prevention among Iraqi Female Population. Medical City Teaching Hospital MainConference Hall, 25 March 2016.
- 1<sup>st</sup> Specialized Training Course on the Significance of Pap Smear as a Screening Tool for Cervical Cancers, National Cancer Research Center Conference Hall, Baghdad University, 13-14 April 2016.
- Specialized Training course on the Adoption of PCR Technology in the Early Detection and Treatment of Cancer (Organizer & Keynote Speaker),. National Cancer Research Center Conference Hall, Baghdad University, 24-26 May 2016
- Joint Scientific Symposium between Oncology Teaching Hospital and National Cancer Research Center celebrating Breast Cancer Awareness Month (Organizer & Keynote Speaker), Oncology Teaching Hospital Conference Hall, 5 October 2016.

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- Iraqi Cancer Board Annual Conference, (Organizer & Keynote Speaker), Medical City Teaching Hospital Main Conference Hall, 24 October 2016.
- The 1<sup>st</sup> Scientific Discussion Panel on Establishing the Pioneering Training Fellowship on Cancer Screening for Post Graduate Board Students in Family Medicine (Organizer & Keynote Speaker), National Cancer Research Center Conference Hall, 29 November 2016.
- The 3<sup>rd</sup> Annual Scientific Women Conference: Women & Science in Iraq (Keynote Speaker), Al Hakeem Main Conference Hall, Baghdad University, 7 December 2016.
- The 1<sup>st</sup> Training Course on the Role of Nursing in Chemotherapy Management of Cancer Patients, (Organizer & Keynote Speaker), National Cancer Research Center Conference Hall, Baghdad University, 10-11 January 2017.
- 1<sup>st</sup> Scientific Seminar Celebrating Cervical Cancer Awareness Month. (Keynote Speaker), Oncology Teaching Hospital Conference Hall, 30 January 2017.
- 2<sup>nd</sup> National Scientific Seminar on the occasion of the World Cancer Day 2017, (Organizer & Keynote Speaker), National Cancer Research Center Conference Hall, Baghdad University, 5 February 2017.
- 1<sup>st</sup> Training Course on the Basic Principles of Immunohistochemistry in Cancer Diagnosis (Organizer & Keynote Speaker), National Cancer Research Center Conference Hall, Baghdad University, 3-4 April 2017.
- 1<sup>st</sup> Training Course on Utilizing SPSS in Statistical analysis of Cancer Research, (Organizer & Keynote Speaker), National Cancer Research Center Conference Hall, Baghdad University, 19-20 April 2017.
- 3<sup>rd</sup> National Scientific Seminar on the No Tobacco Day: Smoking as a Major Risk Factor for Lung Cancer, (Organizer & Keynote Speaker), Oncology Teaching Hospital Conference Hall, 25 May 2017.
- 8<sup>th</sup> Annual Conference of the Breast Cancer Awareness Month 2017 (Organizer & Keynote Speaker), Oncology Teaching Hospital, 16 October 2017.
- Joint Scientific Seminar on the National Cancer Control Strategy (Organizer & Keynote Speaker), College of Science, Baghdad University, 27 November 2017.
- Scientific Annual Conference of Baghdad College of Medicine, Baghdad Medical College, 28-29 November 2017.
- Scientific Seminar on Including Breast Cancer Curriculum in the Syllabus of Iraqi Secondary Schools, Ministry of Education (Organizer & Keynote Speaker), 11 December 2017.
- The Annual Conference of the Medical City Teaching Hospital, MCTH, MoH, 13-14 December 2017.
- Workshop on the Role of Colposcopy in the Early Detection & Treatment of Cervical Cancer (Organizer & Keynote Speaker), National Cancer Research Center, 3-4 January 2018
- The 41<sup>st</sup> Annual Conference of the Iraqi Medical Syndicate, Babylon Hotel, 7-9 February 2018.
- 5<sup>th</sup> Scientific Conference of the World Cancer Day 2018 (Organizer & Keynote Speaker), Ministry of Higher Education Main Conference Hall, 28 February 2018
- Training Course on Recent Advances in the Diagnosis of Tumors using IHC and Digital E Pathology Lab, (Organizer & Keynote Speaker), National Cancer Research Center, 16 -17 April 2018.
- Training Course on Cervical Cancer Screening through Pap smear Cytology & Colposcopy, (Organizer & Keynote Speaker), National Cancer Research Center, 18-19 April 2018
- Training Course on the Role of Elastography in Cancer Diagnosis, (Organizer & Keynote Speaker), National Cancer Research Center, 7-8 May 2018
- The 4<sup>th</sup> scientific Seminar Celebrating the World No Tobacco Day (Organizer & Keynote Speaker), National Cancer Research Center, 31 May 2018
- Cancer Screening Training Workshop, Arab Board for Health Specialization in collaboration with Imperial College London, Solaimaniya 8-10 July 2018
- Scientific Symposium on Recent Advances in the Management of Breast Cancer in Iraq and UK (Organizer & Keynote Speaker), Arab Board of Specialization in Pathology, MCTH, 2 August 2018.
- 9<sup>th</sup> Annual Scientific seminar Celebrating the Breast Cancer Awareness Month 2018: Does Breast Cancer Still Kill? Early Detection is Your Hope (Organizer & Keynote Speaker), National Cancer Research Center, 8 October 2018
- MCTH Breast Cancer Awareness Month, Celebrating Conference & Festival (Organizer & Keynote Speaker), Medical City Teaching Hospital, MoH 17 October 2018.
- 1<sup>st</sup> Scientific Workshop of Soran University, Establishing an Information System Data Base and Applying Digital Microscopy for Breast Cancer Control in Iraq (Organizer & Keynote Speaker), Soran University, Kutdistan, 5 February 2019.
- 4<sup>th</sup> Scientific Seminar on the World Cancer Day 2019 (Organizer & Keynote Speaker), MCTH, 27 February 2019.
- 8<sup>th</sup> Scientific Conference, Iraqi Board for Medical Specialization for the Active Participation in its 8<sup>th</sup> Scientific Conference

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13-14 March 2019,

- 3<sup>rd</sup> Training Course on Tumour Markers & Digital Microscopy (Organizer & Keynote Speaker), NCRC, 19-20 March 2019..
- 1<sup>st</sup> Conference on Advanced Technology on Cancer Diagnosis and Therapy, Kufa University, Kufa, 6-7 April 2019.
- 2<sup>nd</sup> Training Course on MRI Radiodiagnosis (Organizer & Keynote Speaker), NCRC, 15-16 April 2019.
- 4<sup>th</sup> scientific Seminar on the occasion of World No Tobacco Day (Organizer & Keynote Speaker), Oncology Teaching Hospital, 29 May 2019.
- The First Educational Seminar on Cancer Prevention and Control for the Female Employee affiliated to the Presidency Bureau (Organizer & Keynote Speaker), Presidency of the Republic of Iraq, 21-22 October 2019.
- Annual Seminar celebrating Breast Cancer Awareness Month (Keynote Speaker), Medical City Teaching Hospital, 26 November 2019.

### Letters of Thanks, Appreciation and Honorary Rewards:

#### **Received Since 2001 Onwards:**

- From the Minister of Health for the scientific supervision of a training course on the Concept of the National Campaign for Early Detection of Breast Cancer (for participants from Iraqi Governorates) in May, 2001 (No. 25531, dated : 11-7-2001).
- From the Minister of Health for organizing and supervising a two-month national training course on the Cytopathological Diagnosis and Fine Needle Aspiration of Breast Tumours, August-September, 2001. ( No. 48319, dated: 3-12-2001).
- Honorary Rewards from the Minister of Health for the distinguished work within the Main Preventive & Training Center for Early Detection of Breast Tumours and for supervision of a training course on Pathology of Breast Tumours – designed for health directors from 5 Iraqi Governorates.(dated 30-9-2001 & 25-1-2002).
- From the Ministry of Higher Education & Scientific Research (President of Baghdad University) for being promoted to Professor of Pathology (short of the due period - dated: 16-5-2001).
- From the Ministry of Health for working as a Senior Researcher on Oncopathology of Breast Cancer (No. 80 dated: 31-10-2001).
- From the Minister of Health for Supervising an Oncopathology Research team (No: 82, dated: 24-11-2001).
- From the Dean of the College of Medicine , Baghdad University , for working as a Principal Investigator in a WHO Pilot Study Demonstration Project of Screening for Cervical Cancer Precursors in Iraq ( No: 1268, dated: 7-4-2001).
- From the Dean of the College of Medicine, Baghdad University, for promotion to Professorship (short of the due period- No. 3035, dated: 21-8-2001).
- From the General Director of the Medical City Teaching Hospital for supervising Research Activities in Breast Cancer (No: 7348, dated: 24-11-2001).
- From the Chief of the Iraqi Cancer Board, Ministry of Health for supervising and active participation in a Scientific Seminar on Early Detection of Cervical Cancer (No: 303, dated: 19-3-2001).
- From the Chief of the Iraqi Cancer Board for supervising and active participation in a Scientific Seminar on Early detection of Breast Cancer (No; 304, dated: 19-3-2002).
- From the Dean of the Medical Baghdad College, for the distinguished work within the Scientific Committee of The 13<sup>th</sup> Scientific Conference,( February 2003).
- From the Dean of the Medical College, Baghdad University, for the active participation in organizing and supervising the MoH/MoHESR Breast Cancer Symposium – December 2003 ( No. 2668, dated: 17-12-2003)..
- From the General Director of the Medical City Teaching Hospital for the continuous sincere efforts in supervising the activities of the National Breast Cancer Program (No. 8600, dated: 26-8-2004).
- From the Minister of Health for organizing and supervising a National Symposium on Early Detection of Breast & Cervical Cancers – MoH in collaboration with Movimondo Org. ( dated :November 2004).
- From the Minister of Health for participating in the supervision of Training Courses for Laboratory Doctors and Technicians (dated: 14-5- 2005).
- From the Deputy Minister of Health/ DG of the Health Planning Directorate, MoH, for supervising a breast cancer symposium for nurses (dated: 30-5-2005).
- From the Deputy Minister of Health for the distinguished work in the Pathology Advisory Committee (dated: August 2005).
- From the Minister of Higher Education and Scientific Research for chairing the National activities on Early Detection of Breast Cancer (dated: November 2005).
- From the Deputy Minister of Health for organizing the activities of the Laboratory CME Program (No. 49771 in 17-10-2006).

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- From the General Director of the Medical City Teaching Hospital for supervising daily activities within the Main Referral Training Centre for Early Detection of Breast Cancer (dated December 2007).
- From the Minister of Higher Education and Scientific Research Bureau/Deputy Minister for Scientific Affairs for the distinguished achievements as a Chairperson of the Coordination Committee between MoHE and MoH (No. 1441 dated 14-4-2008).
- From the General Secretariat for the Council of Ministers for organizing and supervising a Seminar on Early Detection of Breast Cancer for the female officials working in the Council of Ministers (No. 14336 dated 8-6-2008).
- From the Minister of Environment (Chairperson of the Supreme Committee on Breast Cancer Awareness) for organizing and supervising a training course on Early Detection of Breast Cancer designed for School Teachers from the Ministry of Education (No. 456 dated 21-7-2008).
- From the Minister of Health for organizing and supervising the 3<sup>rd</sup> National Workshop on Early Detection of Breast Cancer for the health cadre running the Early Detection Centers and Clinics from all Iraqi Governorates ((No. 53242 dated 9-10-2008).
- Honorary Reward from the Minister of Higher Education & Scientific Research for organizing a Public Awareness Educational Programs on. Early Detection of Breast Cancer (No. 38 dated 4-1-2009).
- From the Minister of Higher Education & Scientific Research for the distinguished efforts conducted through chairing the Iraqi National Breast Cancer Research Program (No. 1147 dated 15-1-2009).
- From the President of the Iraqi Board for Medical Specializations for the active participation in supervising the Final Examinations of Post-Graduate Students Specialization in Pathology (No. 1466 dated 28-1-2009).
- From the General Director of Research and Development Directorate / MoHESR for the active participating in the Radiation Protection Symposium, MoHESR in collaboration with the Common Secretariat for the Council of Ministers (No. 7693 dated 6 -10- 2009).
- From the Minister of Higher Education & Scientific Research for supervising and facilitating the activities of the 1<sup>st</sup> Scientific Symposium of the Iraqi National Cancer Research Program within the Iraqi Parliament (No. 35311 dated 3-12-2009).
- From the Minister of Higher Education & Scientific Research for delivering the Keynote Presentation on the Strategy of Breast Cancer Control in Iraq in the 1<sup>st</sup> Scientific Symposium of the Iraqi National Cancer Research Program held within the Iraqi Parliament (No. 35311 dated 3-12-2009).
- From the Minister of Higher Education & Scientific Research for chairing, as an Executive Director, the activities of the e Iraqi National Cancer Research Program (No. 1395 dated 29-3-2010).
- From the President of Baghdad Universty for presenting the Keynote Lecture on Initiating the activities of the National Breast Cancer Control Staregy in Iraq in the 14<sup>th</sup> Scientific Conference of Baghdad University Medical College (June 2010).
- From the Minister of Higher Education & Scientific Research for thr distinguished performance as a Professor in Baghdad University Medical College (No. 581 dated 6-2-2011).
- From the Dean of Baghdad Medical College for the outstanding performance (No. 620 dated 16-2-2011).
- From the General Director of the Medical City Teaching Hospital/MoH for the active participation in organizing the 2<sup>nd</sup> Conference of the National Early Detection Cancer Centre (No. 8552 dated 20-3-2011).
- From the General Director of the Medical City Teaching Hospital/MoH for the distinguished efforts as a Director of the the Main Referral Training Centre for Early Detection of Breast Cancer (No, 11351 dated 12-4-2011).
- From the General Director of the Medical City Teaching Hospital/MoH for facilitating and supervizing a Training Course on Breast Self Examination for female employees of Ain Institute for Orphans Care (No. 14301 dated 8-5-2011).
- From the Dean of Baghdad Medical College for the sincer efforts in upgrading the activities and promoting the educational services within the Medical College (No. 2245 dated 25-5-2011).
- From the Dean of Baghdad Medical College/MoHESR for organizing and facilitating the 1<sup>st</sup> Training Course on Breast Self Examination for Postgraduate Students of Baghdad College of Nursing (No. 2815 dated 10-7-2011).
- From the Dean of Baghdad Medical College for the distinguished efforts and the success of chairing the “1<sup>st</sup> National Workshop of the Iraqi National Breast Cancer Research Program” (19-20 March 2012) under auspice of H E Minister of Higher Education & Scientific (No. 1866 dated 4-4-2012).
- From the General Director of the Medical City Teaching Hospital/MoH for the distinguished sincere efforts in chairing the “1<sup>st</sup> National Workshop of the Iraqi National Breast Cancer Research Program” (No 12015 dated 5-4--2012).
- From the Dean of Baghdad Medical College for chairing the scientific & executive committee of the “1<sup>st</sup> National Workshop of the Iraqi National Breast Cancer Research Program” (No 1973 dated 9-4-2012).
- From the Director of the National Center for Early Detection of Cancer, MoH, for the the distinguished efforts in the field of Breast Cancer Control, (No 266 dated 12-4-2012).
- From the President of Baghdad Universty for the presented sincere efforts in organizing and supervising the “1<sup>st</sup> National Workshop of the Iraqi National Breast Cancer Research Program” (19-20 March 2012) under auspice of H E Minister of Higher Education &

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Scientific Research (No. 716 /w/396 dated 22-4-2012).

- From the DG, Medical City Teaching Hospital/MoH for the distinguished the outstanding leadership, Main Training Center for Early Detection of Breast Diseases, MoH (No 3128 dated 29-4--2012).
- From the H E Minister of Higher Education & Scientific Research: Award of the "Best Research Unit in the Iraqi MoHESR", Ceremony of the Scientific Day, 15 April 2012..
- From the Dean of Baghdad Medical College for receiving the award of the "Best Research Unit in the Iraqi MoHESR" during Ceremony of the Scientific Day, April 2012 (No. 2422 dated 2-5-2012).
- From the Director of the National Center for Early Detection of Cancer, MoH, for chairing the breast cancer center & research session in the 3<sup>rd</sup> Annual Symposium of the Center, (No 301 dated 2-5-2012).
- From the President of Baghdad University for publishing research studies in peer reviewed International Journals (No. 20301 dated 11-6--2012).
- From the President of Baghdad University for publishing manuscripts in International Journals with High Impact Factors (No. 29127 dated 2-9--2012).
- From the DG, Medical City Teaching Hospital/MoH for the sincere efforts in organizing the 3<sup>rd</sup> Annual Symposium of the Iraqi National Early Detection Center, MoH (No 34669 dated 24-10--2012).
- From HE Minister of Health for the cooperation in supporting Field Epidemiology in the Republic of Iraq (dated 3-12-2012).
- From HE Minister of Higher Education & Scientific Research for the active participation as a senior researcher in the International Conference for Promoting Higher Education in Iraq (dated 12-12-2012).
- From the Directors of Iraq University Linkage Program "IREX" for the active participation as the Head of Medical Specialization Committee, Scientific Research Board, in IREX Research Workshop (5-12-2012).
- From Director of the Human Resource Development & Research Center for the active participation as a chairperson and senior researcher in the 4<sup>th</sup> Annual Conference (8-12-2012).
- From DG, Medical City Complex/ MoH for the displayed distinguished efforts in the Joint Medical College/Medical City Conference, (No. 577 dated 8-1--2013).
- From the Dean of the Medical Technical College for organizing National Symposium on Cancer Control at his College (dated 8-1-2013).
- From President of Baghdad University for winning the 1<sup>st</sup> rank in the annual assessment of the websites among all Research Centers and Units (No. 1210 dated 20-2-2013).
- From Dean of Baghdad Medical College for the active participation in 15<sup>th</sup> Annual Joint Medical College/Medical City Conference, (No. 444 dated 22-1-2013).
- From the Vice President of Baghdad University for Scientific Affairs for the outstanding potentials and sincere cooperation in upgrading knowledge and technical skills (No. 6/8/49 dated 26-2-2013).
- From the Vice President of Baghdad University for Scientific Affairs for publishing scientific research article in an international peer reviewed high impact factor journal (No. 6/8/49 dated 26-2-2013).
- From DG, Planning Directorate/MoH "Shield of Distinguished Women 2013" for the outstanding performance in supporting the Planning and Resource Development Department (dated 14-3-2013).
- From HE Minister of Higher Education & Scientific Research for the scientific sincere efforts as a member of Baghdadive University (No 230 dated 4-4-2013).
- From the Vice President of Baghdad University for Scientific Affairs for publishing a scientific article in an international peer reviewed periodical (No.15126 dated 8-5-2013).
- From H E Minister of Science & Technology (MoST) for organizing the 1<sup>st</sup> Scientific Symposium on the importance of Breast Cancer Screening in Iraq for the participants of MoST (dated 12-5-2013).
- From DG, Planning Directorate/MoH for the active collaboration and support to the Planning and Resource Development Department (31794 dated 16-5-2013).
- From the Director of Tumour Hospital/Medical City Campus for the distinguished efforts in presenting cancer screening services for affiliates of the Ministry of Transport/Iraq (No 469 dated 3-6-2013).
- From the Ministry of Transport/Iraq for the distinguished efforts in presenting cancer screening services for affiliates of the Ministry of Transport/Iraq (No 469 dated 3-6-2013).
- From the Ministry of Transport/Iraq for organizing a scientific seminar on the importance of early detection of breast cancer for female affiliates of the Ministry of Transport/Iraq (No 469 dated 3-6-2013).
- From the Vice President of Baghdad University for Scientific Affairs for participation in publishing "The World Cancer Reprt 2014" /WHO (No. 2550 dated 24-11-2013).

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- From the Vice President of Baghdad University for Scientific Affairs for participating in publishing a scientific article in an international peer reviewed periodical (No.2858 dated 11-12-2013).
- From the Vice President of Baghdad University for Scientific Affairs for the distinguished efforts in organizing the 1<sup>st</sup> National Cancer Research Workshop 2-4 December 2013 (No.636 dated 26-12-2013).
- From H E Minister of Labour & Social Affairs (MoLSA) for organizing the 1<sup>st</sup> Scientific Symposium on the importance of Breast Cancer Screening in Iraq for the participants of MoLSA (No 11 dated 5-1-2014),
- From DG, Medical City Complex/ MoH for the displayed distinguished efforts as a Director of the Main training Centre for Early Detection of Breast Tumours / Medical City Teaching Hospital (No 19 dated 8-1-2014)..
- From the President of Baghdad University for the distinguished sincere leadership and efforts in organizing the 1<sup>st</sup> National Cancer Research Workshop 2-4 December 2013 (No.128 dated 9-1--2014).
- From Deputy President of Baghdad Univ. for publishing articles in international journals ((No.607 dated 2-2--2014).
- From Deputy / Minister of Higher Education & Scientific Research for the outstanding performance in organizing and chairing scientific symposiums on cancer control for affiliates of Iraqi Ministries (No. 1045 dated 5-2-2014).
- From the Deputy President of Baghdad University for Scientific Affairs for publishing manuscripts in peer reviewed international periodicals (No.734 dated 9-2--2014).
- From HE The Minister of Higher Education & Scientific Research as a distinguished scholar in Baghdad University (No 280 dated 16-2-2014),
- From H E Minister of Higher Education & Scientific Research for the distinguished efforts exerted in organizing and chairing the National Cancer Research Workshop (No 4344 dated 19-2-2014),
- From H E Minister of Health for the active participation in the "Medical Specialty Competency Conference" (No 725 dated 27-2--2014),
- From Dean of the Institute of Technology, Foundation of Technical Education for organizing and supervizing a Scientific Seminar on Breast Cancer Control for their affiliates (No 1491 dated 24-3-2014).
- From DG of the Administrative Directorate, Ministry of Planning (MoP) for the distinguished Seminar organized for MoP affiliates on Screening for Female Malignancies (No 12339 dated 2-6-2014).
- From the President of Baghdad University for publishing distinguished manuscripts in peer reviewed international periodicals ( No 2653 dated 8-7-2014).
- From the Deputy President of Baghdad University for publishing manuscripts in international periodicals (No.3012 dated 24-7--2014).
- From Director of Forensic DNA Research Center for initiating the collaborative joint research team (11 November 2014-).
- From HE The Minister of Higher Education and Scientific Research for the leadership in establishing the Lung Cancer Control Strategy and promoting the Anti Smoking Campaign (No dated . 334 dated 15-3-2015)
- From Her Highness Princess Dina Mired, Director General, King Hussain Cancer Foundation, 7 April 2015.
- From Dean of Ibn Rushd Humanitarian College for organizing and supervising a scientific seminar on cancer prevention and control for College affiliates (No 2550 dated 30-4-2015).
- From the Deputy President of Baghdad University for Scientific Affairs for the distinguished efforts in mobilizing the mammography machine within Baghdad University (No.4470 dated 12-10-2015).
- From the President of Baghdad University for international recording of new sequences for Human Papilloma Virus in Iraq (No. 785 dated 10-2--2016).
- From the Deputy President of Baghdad University for publishing manuscripts in peer reviewed international periodicals ( No. 901 dated 22-2--2016).
- From President of Mid Technical University for the distinguished efforts in the 3<sup>rd</sup> Annual Scientific Conference, (24 -3- 2016).
- From Dean of Baghdad Nursing College for organizing a seminar on the Anti-Tobacco Day for affiliates of the Nursing College (No. 938 dated 12-4-2016).
- From Dean of Baghdad College of Education for Women for organizing and chairing a seminar on Signs and Symptoms of Cancer for affiliates of the College (No. 1602 dated 2-6--2016).
- From the Deputy President of Baghdad University for publishing manuscripts in peer reviewed international periodicals ( No. 369 dated -8-6- 2016).
- From the Deputy President of Baghdad University for being granted the full mark in the performance evaluation for the years 2014-2015 ( No. 519 dated -10-6- 2016).
- Honorary Reward From the President of Baghdad University for publishing distinguished manuscripts in high impact journals (28-6-2016).
- From the Deputy President of Baghdad University for collaboration with international journals ( No. 3795 dated -25-7- 2016).

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- From the President of Baghdad University for being nominated as an international reviewer in high impact journals ( No. 3822 dated 26-7--2016).
- From the Deputy President of Baghdad University for being nominated as a member of the editorial board in a peer reviewed international journal ( No. 4152 dated -18-8- 2016).
- From the Deputy President of Baghdad University for documenting genetic mutation sequences in APEX1 Lung Cancer Gene of Iraqi Patients in International NCBI and European ENA Websites ( No. 4326 dated 1-9- 2016).
- From President of Baghdad University blessing the distinguished efforts in collaboration with the Ministry of Health (No. 7173 dated 22-11-2016).
- From President of Baghdad University for the achievements in acquiring a Patent No. 4730 in the field of molecular genetics on cervical cancer diagnosis in Iraq (No.5549 dated 28-11-2016).
- From President of Baghdad University blessing the distinguished efforts in supervizing the Cancer screening Fellowship Post-Doctorate Study (No. 975 dated 5-2-2017).
- From the Deputy President of Baghdad University for publishing a distinguished manuscript in a high impact factor journal ( No. 942 dated 15-2- 2017).
- From the Director of Revival of Arabian Science Heritage Center, for the distinguished efforts in attracting international organization for national scientific support, (No.211dated 20-2--2017).
- From the Deputy President of Baghdad University for publishing a distinguished manuscript in a high impact factor journal ( No. 1290 dated 6-3- 2017).
- From Dean of Baghdad Medical College for the active participation in a scientific seminar on Plagiarism (No 1064 dated 16-5-2017).
- From Karl Kolb GmbH & Co. KG, Frankfurt, Germany for the fruitful collaborations in organizing 3 joint workshops on the Laboratory Diagnosis of Cancer and the Accreditation System ( April, 2017).
- From Dako, Lab Company, Al Zahrawi Scientific Bureau, for the distinguished efforts in organizing joint workshops on Tumour Markers in Cancer Diagnosis (June, 2017).
- From the Deputy President of Baghdad University for the distinguished collaborations with International Organizations and Laboratory Companies, (No. 3657 dated 14-6-- 2017).
- From the Ambassador of the Republic of Iraq in the United Kingdom, for the distinguished fruitful participation in the Trade and Investment ICTI Conference, 3-4 July 2017 (dated 6-7-2017).
- From President of Baghdad University for being awarded 3 Golden Price Medals and Honorary Diploma of Excellence in the Fields of Medical and Health Care during the European Conference EURO Invent on Innovation and Creation as consequence of registering a Patent on developing a new method for Early detection of Cervical Cancer in Iraq using Genetic Biomarkers (No. 4198 dated 19-7--2017).
- From Dean of the College of Science, Baghdad University for promoting active joint Collaboration with his College in organizing scientific seminars on the topic of National Cancer Control Strategy in Iraq ( No. 619 dated: 23-11-2017).
- From HE Minister of Health for supervising a newly established Cancer Training Fellowship for Board Graduates students in Family Medicine and Public Health (No. 6214 dated 29-11-2017).
- Certificate of Appreciation from the President of Baghdad University for promoting active fruitful collaboration with the Ministry of Education in the field of Breast Cancer Screening (No. 7632 dated 4-12-2017).
- Certificate of Appreciation From DG, Medical City Teaching Hospital for the distinguished fruitful participation in the Annual Medical City Conference (13-14 December 2017)
- Certificate of Appreciation from Pasteur institute, WHO Regional training center, Tunisia for the active participation as a Facilitator in the Capacity building Ethics Research Workshop ( 22-25 December 2017).
- From Secretary General of the National Committee for Education, Culture & Science, DG, Cultural Affairs Directorate, Ministry of Education for the outstanding efforts in organizing a National Seminar to include the Breast Cancer Screening topic in the Syllabus of the Iraqi Secondary Schools (No. 13/3/41 dated: 3-1-2018)
- From DG, General Company for Land Transport, Ministry of Transport for the displayed sincere efforts in Breast Cancer Screening of Ministry of Transport Affiliates (No. 3625 dated: 25-1-2018).
- Certificate of Appreciation from the Chairperson of the Iraqi Medical Syndicate for the fruitful participation in the 41<sup>st</sup> Annual Conference 2018 (February, 2018).
- From HE The Minister of Higher Education & Scientific Research for the distinguished efforts in Organizing and Chairing the Cancer Control and Pathology Accreditation Activities and for Recording the fruitful Recommendations raised following the World Cancer Day 2018 (No. 1349 dated 3-4-2018).



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- From the Chairperson of the Prime Minister Chamber for the active participation in the the Iraqi Medical Syndicate Annual Conference 2018 (No. 1036 dated 5-4--2018).
- From President of the Apparatus of Supervision & Scientific Evaluation, MoHESR for the fruitful achievement in the field of Cancer Control & World Cancer Day (No. 1275 dated 23-4--2018).
- From President of Baghdad University for publishing a quality manuscripts in High Impact International Journals that belongs to Thompson Rheuter (No. 3424 dated 27-5--2018).
- Fom Chairperson of Iraqi Medical Deanery Committee, Dean of Medical College, Nahrain University for the distinguished efforts in Organizing, Chairing and Facilitating the Pathology Leadership Course on Accreditation in Collaboration with RCPATH, London, UK 26-28 June 2018 (No. 340 dated 8-7-2018).
- Certificate of Appreciation from HE The Minister of Higher Education & Scientific Research for the Successful Achievements recorded following compleing a Sabbatical Leave in Oxford University, UK (September 2018).
- Certificate of Appreciation and Honorary Reward from the President of Soran University for the Outstanding Research Presentation and Keynote speaker at the 1<sup>st</sup> Symposium of Cancer Research and Data Base Development (4 February 2019).
- Honorary Reward and Certificate of Appreciation from the Dean of the Scientific Research Center of Soran University, for the distinguished role in Organizing and Facilitating the Breast Cancer Data Base Workshop in Soran University, Erbil, Kurdistan (6 February 2019).
- From President of the Apparatus of Supervision & Scientific Evaluation, MoHESR for Organizing the 3<sup>rd</sup> Scientific Seminar on the Occasion of he World Cancer Day (No. 713 dated 12-3-2019).
- From the Iraqi Board for Medical Specialization for the Active Participation in its 8<sup>th</sup> Scientific Conference 13-14 March 2019
- From the President Baghdad University for the distinguished efforts in collaboration with Soran University, Erbil, Kurdistan (No. 2433 dated 27-3-2019).
- Honorary Reward and Certificate of Appreciation from the Iraqi Environment & Health Society in UK for the Active Participation in its 6<sup>th</sup> Scientific Conference on Cancer and Environment Pollution, UCL, London, UK (24 March 2019).
- Honorary Reward and Certificate of Appreciation from the United Medical Association in UK & Ireland for the Active Participation in its Spring Scientific Conference, Ealing Broadway Hospital, London, UK (31 March 2019).
- From the President of Soran University, Erbil, Kurdistan for the Active Joint Collaboration in Organizing the 1<sup>st</sup> Workshop for Establishing Cancer Information System Data Base in Soran University (No. 1451 dated 10-4-2019).
- From The Minister of Higher Education and Scientific Research for the Active Role in Updating the Performace Evaluation Forms of the Scientific Research Centers (No. 2949 dated 4-11-2019).