

CURRICULUM VITAE

Dr. Mohammad ARAFA *MD, PhD*



2021

PERSONAL INFORMATION

- Name: Mohammad Mahmoud Mohammad Arafa
- Date of birth: 20th April 1972
- Sex: Male
- Nationality: Egyptian
- Marital status: Married with three offsprings.
- Address (work): 1- Pathology Department, Faculty of Medicine, Mansoura University, 35516 Mansoura, Egypt. 2- Collage of Medicine and Health Sciences, Sultan Qaboos University, Oman.
- Address (home): 10th Omar Ebn Al Khattab street, Tarteer division, Canal of Suiz street, 35111 Mansoura, Egypt.
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UNIVERSITY EDUCATION & QUALIFICATIONS

- Undergraduate Medical student, Faculty of Medicine, Mansoura University, Egypt (September 1989 - November 1995).
- Postgraduate Master student, Pathology Department, Faculty of Medicine, Mansoura University, Egypt (June 1997 - November 2001).
Master thesis: Pathological features of primary pediatric central nervous system tumours (October 2000, Mansoura University, Egypt).
- Doctorate (PhD) Student, Anatomic Pathology & Cytology Department, Faculty of Medicine, University of Liege, Belgium (October 2004 - October 2008).
Doctorate (PhD) thesis: Identification of diagnostic markers in uterine carcinomas (October 2008, University of Liege, Belgium).

DEGREES OBTAINED

-Bachelor degree of Medicine and General Surgery (MBBCh), Mansoura University, Egypt (November 1995).

-Master degree in basic medical sciences, Pathology (MSc), Mansoura University, Egypt (November 2001).

-Board certification (European Board of Pathology), Utrecht, the Netherlands (September 2006).

-Doctorate degree in medical sciences, Pathology (PhD), University of Liege, Belgium (October 2008).

(equalized by the supreme council of Egyptian universities with the Egyptian doctorate degree in medical sciences, December 2008).

MEDICAL PRACTICE LICENCE

-Consultant Histopathologist (since December 2009):

*Licence number (129153 medical doctor and 434 pathologist), The Egyptian Ministry of Health.

***The consultant status is obtained upon histopathology and cytopathology training in the Department of Pathology in Mansoura Faculty of Medicine and its affiliated University hospitals. This training was achieved in parallel with the research work performed during the employment periods as demonstrator and assistant lecturer.*

EMPLOYMENT INFORMATION

Current employment:

* March 2018 - present: Associate Professor of Pathology, Collage of Medicine and Health Sciences, Sultan Qaboos University, Oman.

Previous employments:

*March 1996 - February 1997: Rotating internship, Mansoura University Hospitals, Egypt.

*February 1997 - June 1997: General practitioner, the Egyptian ministry of Health.

*June 1997 - March 2002: Demonstrator of Pathology, Faculty of Medicine, Mansoura University, Egypt.

*March 2002 - October 2004: Assistant lecturer of Pathology, Faculty of Medicine, Mansoura University, Egypt.

*October 2004 - October 2008: PhD student, Department of Anatomic Pathology & Cytology, University Hospital of Liege, Liege, Belgium.

*October 2008 - January 2009: Assistant lecturer of Pathology, Faculty of Medicine, Mansoura University, Egypt.

*January 2009 - May 2014: Lecturer of pathology, Faculty of Medicine, Mansoura University, Egypt.

* "12 September - 30 November 2011", "30 September 2013 - 25 October 2013" and "24 November 2014 - 5 December 2014": Training in gynaecological pathology with observer status, the Department of Histopathology, Royal Hallamshire Hospital,

Sheffield Teaching Hospitals NHS Foundation Trust, Sheffield, UK. [*granted by the BDIAP (2011 and 2014) and the Academy of Medical Sciences (2013)*].

*December 2015- March 2016: Visiting consultant in Pathology, Sultan Qaboos University Hospital, Oman.

*April 2017- June 2017: Visiting faculty in Pathology Department, Collage of Medicine and Health Sciences, Sultan Qaboos University, Oman.

*May 2014 - March 2018: Associate Professor of Pathology, Faculty of Medicine, Mansoura University, Egypt.

TEACHING EXPERIENCE

****Undergraduate Students:***

-Pathology (general and special) teaching in the form of lectures for a sector of the students of the third year (about 500 student annually) of Mansoura Faculty of Medicine. This includes, but not limited to, pathology of inflammation (7 hours) and female genital tract (5 hours).

-Pathology lectures for students of other faculties such as Dentistry, Pharmacy, and Medical technicians.

-Before being employed as Associate Professor, teaching for smaller groups of students as practical classes including gross specimens and microscopic slides was performed on weekly basis (4-6 hours).

-Development of the curriculum, teaching and the exam preparation specially for the pathology of female genital tract.

-Being a member of the exam committee for undergraduate students.

-In Oman, and now in Egypt, the applied curriculum is a problem based curriculum and teaching is done using a combination of traditional lecturing, team based learning sessions (TBL) as well as small group teaching. In SQU, Oman, I am the Course Coordinator for locomotor system module.

****Postgraduate Students:***

-Pathology for master and PhD pathologists in the form lectures covering the pathology of female genital tract (7 hours-5 students) twice annually (spring and autumn semesters). This includes curriculum preparation, teaching, exam and assessment.

-Pathology part for master and PhD gynecologists in the form lectures (7 hours-15 students) twice annually (spring and autumn semesters). This includes curriculum preparation, teaching, exam and assessment.

-Pathology part for master nursing students in the form lectures (8 hours-10 students) twice annually (spring and autumn semesters). This includes curriculum preparation, teaching, exam and assessment.

-Being a member of the exam committee for different specialities of postgraduate students.

****Pathology training:***

I am involved in the training program for pathology trainees/demonstrators. This encompasses specimen handling, grossing, microscopic evaluation and approach to diagnosis. It is mainly directed to the field of gynaecological pathology, beside the lectures mentioned above.

In Oman, I am a trainer at Oman Medical Specialty Board (OMSB) where I teach and train pathology residents.

ADMINISTRATION

Supervision of junior colleagues:

I am supervising master and PhD works of post graduate students of different medical specialities.

Participation in departmental activities:

Active participation is achieved in providing clinical service as consultant histopathologist to the Egyptian community to serve a population sector of about ten million inhabitants through Mansoura University Hospitals.

Curriculum development:

I am involved in the curriculum development for undergraduate medical students "pathology of female genital tract" as well as pathology parts for post graduate students including gynecologists and nursing students.

Committee membership:

I am a member in various departmental subcommittees as teaching, training, curriculum and assessment.

In Oman, I am the chairperson of the histopathology research subcommittee of the Oman Medical Speciality Board (OMSB).

Quality management:

I am responsible for monitoring the turnaround time and random check of the final pathology reports as a part of the quality control of the pathology service in the department of pathology of Mansoura faculty of Medicine.

CLINICAL SERVICE

*Mansoura University hospitals comprise multiple specialized centres beside the main Hospital. These include The Urology and Nephrology Centre, The Gastroenterology Centre, The Oncology Centre and Pediatric Hospital. Mansoura University hospitals are of the largest hospitals in Egypt. Approximately 20000 pathology specimens are received each year.

*My share in the diagnostic service is performed independently as a **senior consultant histopathologist (in Egypt and in Oman)** responsible for pathology and cytology reporting. Being involved in one of the diagnostic histopathology groups, these groups have monthly rotation to cover all the fields of histopathology and cytopathology. This includes gynecological pathology, gastrointestinal pathology, neuropathology,..etc.... Discussion of problematic cases with colleagues and senior staff at regular scientific meetings is performed in addition to regular MDT meetings, presentation and discussion of cases with colleagues from different specialities.

*Before being appointed as consultant histopathologist in January 2009, I worked as a pathology trainee (demonstrator) and an assistant lecturer (specialist) in the pathology department. During that time, I was responsible for examination, description and sampling of the gross specimens, and selection of the relevant tissue blocks. I was also in charge of providing a provisional diagnosis and writing the pathology report prior to authorization of the diagnosis by the senior of the group who are consultants in the department.

*During my PhD in Belgium, I passed four years in the Department of Anatomic Pathology & Cytology of the university hospital of Liege. There, I continued updating my pathology training by observation as well as attending educational pathology and cytology meeting in different parts of the country.

RESEARCH EXPERIENCE

Fields and tools:

*Gynecological pathology, breast, Gastrointestinal and CNS tumour pathology are the main areas of interest.

*Main research tool experiences and techniques are:

- DNA extraction on Human tissues paraffin embedded tissues
- DNA amplification: PCR and RT-PCR.
- In situ hybridization (FISH) techniques on tissue sections.
- Laser captured microdissection.
- Immunohistochemistry.
- Tissue microarray technique.

Research Projects:

* Principle investigator for a search project funded by Mansoura University entitled "Impact of Genetic Alterations in the Management of Endometrial Carcinoma" (January 2012 - January 2018) (100.000 EGP).

*Co- investigator for a project funded by Mansoura University entitled titled “A Tissue Based Progression Model for Hepatic Carcinogenesis with its Clinical Implication” (January 2012 - January 2018) (130.000 EGP).

* Principle investigator for a search project funded by the internal grant of Sultan Qaboos University entitled Establishing a tissue based model for carcinomas of the uterine cervix and their precursor lesions with application of potential markers for clinical management. (Year 2021) “IG/MED/PATH/21/01 (Value: 6800 OMR)”

* Supervisor for the PI Dr. Muna Al Jabri, OMSB Graduate Research Grant: Immunohistochemical expression of BCL2, caspase3 and cyclin D1 in hydatidiform molar disease and their correlation with the clinicopathological parameters. (Year 2020) (Value: 3000 OMR)

SCHOLARY ACHIEVMENTS

PUBLICATIONS:

As first author:

1. Arafa M, Boniver J, Delvenne P. Detection of HPV-induced cervical (pre) neoplastic lesions: a tissue microarray (TMA) study. Appl Immunohistochem Mol Morphol. 2008;16:422-432.
2. Arafa M, Kridelka F, Mathias V, Vanbellinghen JF, Renard I, Foidart JM, Boniver J, Delvenne P. High frequency of RASSF1A and RARb2 gene promoter methylation in morphologically normal endometrium adjacent to endometrioid adenocarcinoma. Histopathology. 2008;53:525-532.
3. Arafa M, Boniver J, Delvenne P. Progression Model Tissue Microarray (TMA) for the Study of Uterine Carcinomas. Dis Markers. 2010;28:267-72.
4. Arafa M, Somja J, Dehan P, Kridelka F, Goffin F, Boniver J, Delvenne P. Current concepts in the pathology and epigenetics of endometrial carcinoma. Pathology. 2010;42:613-17.
5. Arafa M and El-Esawy B. Extensive cystic degeneration of leiomyoma mimicking ovarian cystic neoplasm. Malaysian J Pathol 2012;34(2):165-6.

As co-author:

6. Henkens R, Delvenne P, Arafa M, Moutschen M, Zeddou M, Tautz L, Boniver J, Mustelin T, Rahmouni S. Cervix carcinoma is associated with an up-regulation and nuclear localization of the dual-specificity protein phosphatase VHR. *BMC Cancer*. 2008;8:147.
7. Herfs M, Herman L, Hubert P, Minner F, Arafa M, Roncarati P, Henrotin Y, Boniver J, Delvenne P. High expression of PGE2 enzymatic pathways in cervical (pre)neoplastic lesions and functional consequences for antigen-presenting cells. *Cancer Immunol Immunother*. 2009;58:603-614.
8. Weynand B, Delvenne P, Polet R, Guiot Y, Arafa M, Somja J, Galant C. Validation of ThermoFisher's Papsin for human papillomavirus detection in cervicovaginal specimens using PCR with GP5+/GP6+ primers and the Hybrid Capture II assay. *Clin Microbiol Infect*. 2010;16:671-5
9. Neufcoeur PE, Arafa M, Delvenne P, Saussez S. Involvement of human papillomavirus in upper aero-digestive tracts cancers. *Bull Cancer*. 2009 96:941-50.
10. El-Ghannam DM, Arafa M, Badrawy T. Mutations of p53 gene in breast cancer in the Egyptian Province of Dakahliya. *J Oncol Pharm Pract*. 2011;17:119-24
11. Hemida R, Ghazy H, Arafa M, Elhemaly M. Synchronous Ovarian Metastasis in Apparently Normal Ovaries During Surgery for Gastric and Colorectal Carcinoma: The Role of Routine Ovarian Biopsy. *Clinical Ovarian Cancer*. 2009;2:94-98.
12. El-Shazly A, Arafa M, Roncarati P, Dortu E, Lefebvre P, Delvenne P. Characterisation of Hepatitis C virus induced nasal mucosa remodeling. *Histopathology*. 2010;57:488-92.
13. Hubert P, Doyen J, Capelle X, Arafa M, Renoux V, Bisig B, Seidel L, Evrard B, Bousarghin L, Gerday C, Boniver J, Foidart JM 2, Delvenne P, Jacobs N. Local applications of GM-CSF induce the recruitment of

- immune cells in cervical low-grade squamous intraepithelial lesions. *Am J Reprod Immunol*. 2010;64:126-36.
14. Ernoux-Neufcoeur P, Arafa M, Decaestecker C, Duray A, Remmelink M, Leroy X, Herfs M, Somja J, Depuydt CE, Delvenne P, Saussez S. Combined analysis of HPV DNA, p16, p21 and p53 to predict prognosis in patients with stage IV hypopharyngeal carcinoma. *J Cancer Res Clin Oncol*. 2011; 137:173-81.
 15. Duray A, Descamps G, Arafa M, Decaestecker C, Remmelink M, Sirtaine V, Ernoux-Neufcoeur P, Mutijima E, Somja J, Depuydt CE, Delvenne P, Saussez S. High incidence of high-risk HPV in benign and malignant lesions of the larynx. *Int J Oncol*. 2011;39:51-9.
 16. El-Shazly AE, Moonen V, Mawet M, Begon D, Henket M, Arafa M, Louis R, Delvenne P, Lefebvre PP. IFN- γ and TNF- α potentiate prostaglandin D2-induced human eosinophil chemotaxis through up-regulation of CRTH2 surface receptor. *Int Immunopharmacol*. 2011;11:1864-70.
 17. Hafez MT, Hegazy MA, Abd Elwahab K, Arafa M, Abdou I, Refky B. Metastatic rhabdomyosarcoma of the thyroid gland, a case report. *Head Neck Oncol*. 2012 May 29;4:27.
 18. Delvenne P, Renoux VM, Arafa M, Trimeche M, Christophe J, Kridelka F, Piérard GE. Virus-induced cancers: interplay between genetics and environment. *Rev Med Liege*. 2012 ;67(5-6):381-9. Review. French.
 19. El-Shazly AE, Begon DY, Kustermans G, Arafa M, Dortu E, Henket M, Lefebvre PP, Louis R, Delvenne P. Novel association between vasoactive intestinal peptide and CRTH2 receptor in recruiting eosinophils: a possible biochemical mechanism for allergic eosinophilic inflammation of the airways. *J Biol Chem*. 2012 Nov 20. [Epub ahead of print].
 20. Brown NJ, Higham SE, Perunovic B, Arafa M, Balasubramanian S, Rehman I. Lactate dehydrogenase-B is silenced by promoter methylation in a high frequency of human breast cancers. *PLoS One*. 2013;8(2):e57697
 21. El-Fakhry AA, El-Daker MA, Badr RI, El-Nady GM, Mesbah MR, Youssef T, Arafa M, Arafa M, El-Naggar MM. Association of the CagA gene positive

- Helicobacter pylori and tissue levels of interleukin-17 and interleukin-8 in gastric ulcer patients. *Egypt J Immunol.* 2012;19(1):51-62.
22. Hussein O, Mosbah M, Farouk O, Farag K, El-Saed A, Arafa M, Abdallah A. Hormone receptors and age distribution in breast cancer patients at a university hospital in northern Egypt. *Breast Cancer (Auckl).* 2013 Jun 12;7:51-7.
23. Elesawy BH, Abd El hafez A, Shawky Ael-A, Arafa M. Immunohistochemistry-based subtyping of breast carcinoma in Egyptian women: a clinicopathologic study on 125 patients. *Ann Diagn Pathol.* 2014;18:21-6.
24. Samy A, Elmowafy M, Arafa M, Kari O, Viitala T, Kassem A, Abu-Elyazid S, Ibrahim H, Yliperttula M. Complement Activation Assay and In vivo Evaluation of Silymarin Loaded Liver Targeting Liposome. *Journal of Life Medicine (JLM).* 2014; 2(1): 15-24
25. Mousa N, Eldars W, Eldeglia H, Fouda O, Gad Y, Abousamra N, Elmasry E, Arafa M. Cytokine profiles and hepatic injury in occult hepatitis C versus chronic hepatitis C virus infection. *Int J Immunopathol Pharmacol.* 2014;27(1):87-96.
26. Hemida R, Arafa M, AbdElfattah H, Sharaf-Eldin D. Human Chorionic Gonadotropin (hCG) Testing in Specimens of Tumor and Myometrial Tissues During Surgical Treatment of Gestational Trophoblastic Tumors. *Journal of Cancer Research Updates* 2015: 4(3): 122-6
27. Hafez MT, Refky B, Elwahab KA, Arafa M, Abdou I, Elnahas W. Axillary lymph nodes metastasis in a patient with recurrent papillary thyroid cancer: a case report. *J Med Case Rep.* 2015 Aug 26;9:181.
28. Refky B, Gamal A, Hamed E, Fathi A, Arafa M, Roshdy S, Gaballa K, Attia E, Abdelkhalek M, Hafez M, Shahatto F, Awny S, Shokry D, Tawfik G. Frozen Section in Postmenopausal Women Presented with Suspicious Ovarian Masses, Does It Have a Role? *Journal of Cancer Therapy.* 2015;6(14):1192-95.

29. Abdel-Razik A, Mousa N, Shabana W, Refaey M, ElMahdy Y, Elhelaly R, Elzehery R, Zalata K, Arafa M, Elbaz S, Hafez M, Awad M. A novel model using mean platelet volume and neutrophil to lymphocyte ratio as a marker of nonalcoholic steatohepatitis in NAFLD patients: multicentric study. *Eur J Gastroenterol Hepatol.* 2016;28(1):e1-9.
30. Fahmy K , Gonzalez A, Arafa M, Peixoto P, Bellahcène A, Turtoi A, Delvenne Ph, Thiry M, Castronovo V, Peulen O. Myoferlin is associated to angiogenesis in human pancreas cancer and plays a key role in VEGFA secretion. *Int J Cancer.* 2016;138(3):652-63.
31. Latif MEA, Shahin R, Abdrabou RM, Shawqy A, El-Ghadban HM, Arafa M, Saleh AAG, Husien AM and Amer MAA. Value of Additional Corpus Biopsy for Diagnosis of Helicobacter Pylori in Atrophic Gastritis. *J Gastro Hepato Dis.* 2016;2(1):108.
32. Wahab KA, Attia E, Arafa M, El Sorogy M, Wahab MA. Micro invasive papillary thyroid lesion in a post living donor liver transplant patient: A case report. *Int J Case Rep Imag.* 2016;7(5):323-326.
33. Gaballa K.M, Metwally I.H, Refky B, AbdElKhalek M, Saleh S, Abdelaziz A.M, Arafa M. Ovarian gastrointestinal stromal tumor: does this diagnosis exist? *European journal of gynaecological oncology.* 2017; 38(1):147-149
34. Khashaba M, Arafa M, Elsalkh E, Hemida R, Kandil W. Morphological Features and Immunohistochemical Expression of (p57Kip2) in Early Molar Pregnancies and Their Relations to the Progression to Persistent Trophoblastic Disease. *J Pathol Transl Med.* 2017; 51(4):381-387
35. Hussein O, Abdel Wahab K, Hamdy O, Arafa M, Hamed EE, Awny S, Roshdy S, Denewer A, Mosbah M. Parotid Quadrantectomy Is a Safe Management for Localized Pleomorphic Adenoma. *Front Surg.* 2018 Feb 5;5:3.
36. Salama A, Shebl AM, Arafa M, ElZahaf E, Awad AAE. Value of HER2 immunohistochemical staining in prognosis of endometrial carcinoma. *Arab Journal of lab. Med.* 2018;42(3).

37. Salama A, Arafa M, ELZahaf E, Shebl AM, Awad AAE, Ashamallah SA, Hemida R, Gamal A, Foda AA, Zalata K, Abdel-Hady EM. Potential Role for a Panel of Immunohistochemical Markers in the Management of Endometrial Carcinoma. *J Pathol Transl Med.* 2019;53(3):164-172.
38. Attia S, Atwan N, Arafa M, Shahin RA. Expression of CD133 as a cancer stem cell marker in invasive gastric carcinoma. *Pathologica.* 2019;111(1):18-23.
39. Hemida R, Vos EL, El-Deek B, Arafa M, Toson E, Burger CW, van Doorn HC. Second Uterine Curettage and the Number of Chemotherapy Courses in Postmolar Gestational Trophoblastic Neoplasia: A Randomized Controlled Trial. *Obstet Gynecol.* 2019;133(5):1024-1031.
40. El-Zayadi AA, Mohamed SA, Arafa M, Mohammed SM, Zayed A, Abdelhafez MS, Badawy AM. Anti-IL-6 receptor monoclonal antibody as a new treatment of endometriosis. *Immunol Res.* 2020; 68(6):389-397.

Other Publications:

41. Delvenne P, Goffin F, Kridelka F, Arafa M, Caberg J.H, Herfs M, Herman L, Hubert P, Jacobs N, Kholod N ,Boniver J , Foidart J.M. Cancer of the uterine cervix : from the virus to the treatment. *Rev. Med. Liege.* 2007;62(S1), 2-6.
42. Delvenne P, Goffin F, Kridelka F, Arafa M, Caberg J.H, Herfs M, Herman L, Hubert P, Jacobs N, Kholod N, Foidart J.M, Boniver J. Le cancer du col utérin: une infection par HPV qui tourne mal. *Tempo Médical.* 2007 (Février), 27-30.
43. Delvenne P, Goffin F, Kridelka F, Arafa M, Caberg J.H, Herfs M, Herman L, Hubert P, Jacobs N, Kholod N, Foidart J.M, Boniver J. Nouvelles approches thérapeutiques du cancer du col. *Tempo Médical.* 2007 (Février), 31-33.

PUBLISHED ABSTRACTS:

1. Kevers M.J.V, Arafa M, Brun L, Vandenbroucke A, Delvenne P. low accuracy of a panel of cytotechnicians for detecting endometrial adenocarcinoma in papanicolaou-stained cervico-vaginal specimens. Oral presentations. *Cytopathology* 2005;16(s2), 1-30.
2. Renoux V, De Leval L, Waroux O, Roncarati P, Dortu E, Gathy R, Arafa M, Boniver J, Delvenne P, Jacobs N. TCRgd cells in HPV-associated cervical cancer. *Acta Clinica Belgica*. 2008;63, 57.
3. Arafa M, Boniver J, Delvenne P. Evaluation of cervical (pre) neoplastic lesions by in situ hybridization and immunohistochemistry: a tissue microarray study. Oral presentation. *Virchows Arch*. 2008; 452 (s1):1-286.
4. Weynand B, Delvenne P, Polet R, Guiot Y, Arafa M, Herfs M, Galant C. HPV detection in cervicovaginal fluid by GP5+/GP6+ PCR and hybrid capture II: a validation study on ThermoFisher's Papspin. *Cytopathology*. 2008;19(s1), 1-100.
5. Ernoux-Neufcoeur P, Arafa M, Decaestecker C, Duray A, Remmelink M, Leroy X, Herfs M, Somja J, Depuydt CE, Delvenne P, Saussez S. Combined analysis of HPV DNA, p16, p21 and p53 to predict prognosis in patients with stage IV hypopharyngeal carcinoma. *Histopathology*. 2010; 57(s1), 1-283
6. Capouillez A, Noel JC, Arafa M, Arcolia V, Delvenne P, Mouallif M, Guenin S, Belayew A, Saussez S. The helicase-like transcription factor and its variants in the tumor progression of the cervix carcinomas. *Histopathology*. 2012; 61(s1).
7. Arafa M, Foda A , Shalaby A, Albair S, El-Esawy B. Alternative Very Low-Cost Tissue Microarray Construction With High Efficiency: Endometrial Carcinoma Model. *Pathology*. 2014; 46, S133
8. Arafa M, Ashamallah S, Foda A: Immunohistochemical features of endometrial carcinoma in Egyptian population: A pilot study. *Virchows Arch* (2016) 469 (Suppl 1):S1-S346

9. Arafa M, Khashaba M, Elsalkh E, Hemida R, Kandil W: Diagnostic morphological and immunohistochemical features of molar pregnancies and their relations to the progression to persistent gestational trophoblastic disease. *Virchows Arch* (2016) 469 (Suppl 1):S1-S346
10. Arafa M and Refky B: Role of frozen section to provide an accurate intraoperative diagnosis for suspicious ovarian masses in postmenopausal women. *Virchows Arch* (2016) 469 (Suppl 1):S1-S346
11. Arafa M and Al-Moqbali A: Histopathological study of human papilloma virus (HPV) induced cervical epithelial lesions and their mimics: experience of Sultan Qaboos University Hospital. *Virchows Archiv* (2020) 477 (Suppl 1):S1-S390.
12. Arafa M, Salama A, ElZahaf E, Shebl A, Awad: A proposed prognostic panel of immunohistochemical markers for endometrial carcinoma. *Virchows Archiv* (2020) 477 (Suppl 1):S1-S390.
13. Arafa M, Al Ryiami M, Al Shukri M, Burney I: Bilateral ovarian gonadoblastoma overgrown by dysgerminoma in a patient with Swyer's syndrome. *Virchows Archiv* (2020) 477 (Suppl 1):S1-S390.

PRESENTATIONS:

****Oral presentations:***

- 1-“Primary pediatric CNS tumours”: the 15th Biennial Meeting of the Pan African Association of the Neurological Sciences in association with the 27th Annual Meeting of the Egyptian Society of the Neurological Surgeons. 12-14 March 2002, Cairo, Egypt.
- 2-“Assessment of a new in situ hybridization oncogenic HPV probe set for the diagnosis of intraepithelial and invasive lesions of the uterine cervix”: The 6th international multidisciplinary congress of the European research organization on genital Infection and neoplasia (Eurogin 2006), 23 - 26 April 2006, Paris, France.

3-“High Frequency of RASSF1A and RARb2 Gene Promoter Methylation In Morphologically Normal Endometrium Adjacent To Endometrioid Adenocarcinoma” to the:

- The winter meeting of the Belgian society of anatomic pathology, 18 November 2006, Brussels, Belgium.
- GIGA-Cancer day, 30 May 2008, Liege, Belgium.

4-“Evaluation of cervical (pre) neoplastic lesions by in situ hybridization and immunohistochemistry: a tissue microarray study”: 3rd Intercontinental Congress of Pathology 17-21 May 2008, Barcelona, Spain.

5-Two lectures (Pathology of endometrial carcinomas - Pathology of ovarian tumours): the First Gynecologic Oncology Workshop (ESGO sponsored), 14-18 March 2015, Mansoura University Hospital, Mansoura, Egypt.

6-The Tissue Microarray (TMA) technology Application in Gynecological Pathology and Oncology research: 5th International Conference Of Oncology Center Mansoura University, 8-11 April 2015, Cairo, Egypt.

7- Pathology of pre-neoplastic lesions of the female genital tract: 3rd Mansoura Oncology Association conference in collaboration with the Royal Collage of Pathologists (UK), 19-21 October 2016, Mansoura, Egypt.

8- “Value of immunohistochemistry in assessing the prognosis of endometrial carcinoma” to the 31st Annual Meeting of IAP-AD (International Academy of Pathology - Arab division), 23 - 26 October 2019, Hurghada, Egypt.

****Poster presentations:***

1- “Assessment of a new in situ hybridization oncogenic HPV probe set for the diagnosis of intraepithelial and invasive lesions of the uterine cervix” to the:

- 6th international multidisciplinary congress of the European research organization on genital Infection and neoplasia (Eurogin 2006), 23 - 26 April 2006, Paris, France.
- 10th Bioforum meeting, 17 May 2006, Liege, Belgium.

2- “High Frequency of RASSF1A and RARb2 Gene Promoter Methylation In Morphologically Normal Endometrium Adjacent To Endometrioid Adenocarcinoma” to the:

- Spring meeting of the Belgian Society for Cell and Developmental Biology “Chromatin Dynamics and Epigenetics”, 10 March 2007, Liege, Belgium.
- First Belgian week of Pathology, 12-15 March 2008, Ghent, Belgium.
- 12th Biennial Meeting of the International Gynecologic Cancer Society, 25-28 October 2008 Bangkok, Thailand (*presented by Prof. Frédéric Kridelka*)

3- “Biomarker assisted evaluation of uterine cervical squamous preneoplastic lesions: a Tissue MicroArray study” to the:

- 21st congress of the arab division of international academy of pathology, 6-8 December 2009, Kingdom of Bahrain.

4- “Combined analysis of HPV DNA, p16, p21 and p53 to predict prognosis in patients with stage IV hypopharyngeal carcinoma” to the:

- XXVIIIth International Congress of the International Academy of Pathology, 10-15 October 2010, São Paulo, Brazil.
- XXIIth Congress of the International Academy of Pathology-Arab division, 16-18 December 2010, Cairo, Egypt.

5- “The helicase-like transcription factor and its variants in the tumor progression of the cervix carcinomas” to the XXIXth International Congress of the International Academy of Pathology, 30 September-5 October 2012, Cape Town, South Africa.

6- “Alternative Very Low-Cost Tissue Microarray Construction With High Efficiency: Endometrial Carcinoma Model” to the XXXth International Congress of the International Academy of Pathology, 5-10 October 2014, Bangkok, Thailand.

7- Three posters: “Immunohistochemical features of endometrial carcinoma in Egyptian population: A pilot study” -- “Diagnostic morphological and immunohistochemical features of molar pregnancies and their relations to the progression to persistent gestational trophoblastic disease” -- “Role of frozen section to provide an accurate intraoperative diagnosis for suspicious ovarian masses in postmenopausal women” to the XXXI International Congress of the

International Academy of Pathology and 28th Congress of the European Society of Pathology, 25 -29 September 2016, Cologne, Germany.

8- “Predictive panel of immunohistochemical markers for the recurrence of ovarian serous carcinoma: A Tissue MicroArray (TMA) validation study” to the 29th Congress of the Arab Division of the International Academy of Pathology and 1st Oman Pathology Society conference, 15 - 18 November 2017, Muscat, Oman.

9- “Relationship of immunohistochemical markers with clinicopathological prognostic parameters in endometrial carcinoma” to the XXXII International Congress of the International Academy of Pathology, 14 - 18 October 2018, Dead Sea, Jordan.

10- Two posters (Virtual): Ovarian bilateral gonadoblastoma overgrown by dysgerminoma in a patient with Swyer's syndrome -- A proposed panel of tissue markers for the assessment of the prognosis of endometrial carcinoma. Annual Poster Competition, June 2020, ORGANISED BY The British Association of Gynaecological Pathologists.

11- Three posters (Virtual): Histopathological study of human papilloma virus (HPV) induced cervical epithelial lesions and their mimics: experience of Sultan Qaboos University Hospital -- A proposed prognostic panel of immunohistochemical markers for endometrial carcinoma -- Bilateral ovarian gonadoblastoma overgrown by dysgerminoma in a patient with Swyer’s syndrome. 32nd European Congress of Pathology and XXXIII International Congress of the IAP, 6 - 8 December 2020

CONFERENCES/ COURSES ATTENDED:

- 15th Congress of the international academy of Pathology (Arab division), 14-16 October 2003.
- The IX world congress on endometriosis, 14 -17 September 2005, Maastricht, the Netherlands.

- Post graduate course on cervical pathology and cytology, a joined meeting of the Belgian society of anatomic pathology and the Belgian society of clinical cytology, 22 October 2005, Antwerpen, Belgium.
- Pulmonary pathology, the Belgian society of clinical cytology, 19 November 2005, Brussels, Belgium.
- The winter meeting of the Belgian society of anatomic pathology, 3 December 2005, Brussels, Belgium.
- Post graduate course on Barrett's esophagus, the Belgian gastro-intestinal pathology club, 14 January 2006, Ghent, Belgium.
- Interuniversity Attraction Poles Programme - Belgian Science Policy, identification and functional analysis of key genes in hormone-sensitive human epithelial tumors, 9 February 2006, Brussels, Belgium.
- The XVIII Belgian week of gastroenterology, the combined meeting of the gastro-intestinal pathology club and the group for digestive oncology, 10 February 2006, Ostend, Belgium.
- Inflammatory dermatopathology, The spring meeting of the Belgian society of anatomic pathology, 18 March 2006, Ghent, Belgium.
- Cervical cytology; Back to morphologic criteria, the spring meeting of the Belgian society of clinical cytology, 25 March 2006, Charleroi, Belgium.
- The 6th international multidisciplinary congress of the European research organization on genital Infection and neoplasia (Eurogin 2006), 23 - 26 April 2006, Paris, France.
- 10th Bioforum meeting, a one day meeting at the University of Liège between Bio-industries and young life sciences researchers 17 May 2006, Liege, Belgium.
- Post graduate course on digestive oncology, the Belgian gastro-intestinal pathology club, 14 October 2006, Brussels, Belgium.
- Urine cytology, The autumn meeting of the Belgian society of clinical cytology, 21 October 2006, Liege, Belgium.

- The winter meeting of the Belgian society of anatomic pathology, 18 November 2006, Brussels, Belgium.
- International symposium on hepatocellular carcinoma: pathology, imaging and treatment, 29 November 2006, Leuven, Belgium.
- Post graduate course on Vasculitis, the Belgian society of anatomic pathology, 9 December 2006, Leuven, Belgium.
- The XVIII Belgian week of gastroenterology, the combined meeting of the gastro-intestinal pathology club and the group for digestive oncology, 2 February 2007, Ostend, Belgium.
- Chromatin Dynamics and Epigenetics, The spring meeting of the Belgian Society for Cell and Developmental Biology, March 10, 2007, Liege, Belgium.
- WHO's next? From controversy to consensus in Lymphoma classification by Prof. Nancy Lee Harris, 30 March 2007, Liege, Belgium.
- Extranodal lymphoma, the spring meeting of the Belgian society of anatomic pathology, 21 April 2007, Leuven, Belgium.
- Dermatopathology Update, 12 May 2007, Brugge, Belgium.
- HPV in cervical screening, the spring meeting of the Belgian society of clinical cytology, 2 June 2007, Antwerp, Belgium.
- Overview of the gastric pathology, post graduate course of the Belgian society of anatomic pathology, 16 June 2007, Brussels, Belgium.
- Thyroid and Salivary gland cytology, the Belgian society of clinical cytology, 17 November 2007, Brussels, Belgium.
- Free communications, the winter meeting of the Belgian society of anatomic pathology, 8 December 2007, Brussels, Belgium.
- Liver Pathology, post graduate course of the Belgian society of anatomic pathology, 12 January 2008, Leuven, Belgium.
- The XX Belgian week of gastroenterology, the combined meeting of the gastro-intestinal pathology club and the group for digestive oncology, 22 February 2008, Antwerp, Belgium.
- First Belgian week of Pathology, 12-15 March 2008, Ghent, Belgium.

- Symposium on Gynecological Pathology, a combined meeting of the British division of the international academy of Pathology and the British association of Gynecological Pathologists, 18-19 April 2008, Manchester, UK.
- 3rd Intercontinental Congress of Pathology, 17-21 May 2008, Barcelona, Spain.
- 32nd Ain Shams international medical congress, 19-22 March 2009, Cairo, Egypt.
- 21st congress of the arab division of international academy of pathology, 6-8 December 2009, Kingdom of Bahrain.
- XXVIIIth International Congress of the International Academy of Pathology, 10-15 October 2010, São Paulo, Brazil.
- Gynecological workshop, XXIIth Congress of the International Academy of Pathology-Arab division, 15 December 2010, Cairo, Egypt.
- XXIIth Congress of the International Academy of Pathology-Arab division, 16-18 December 2010, Cairo, Egypt.
- One-Day Gynae Masterclass "Histopathology of the Cervix", East Pennine Cytology Training Centre, 22 November 2011, Leeds, UK.
- the XXIXth International Congress of the International Academy of Pathology, 30 September-5 October 2012, Cape Town, South Africa.
- Update in Gynaecological Pathology, European School of Pathology (EScoOP) meeting. 11-13 October 2012, Ankara, Turkey.
- The 5th Breast Gynecological International Cancer Conference, 17-18 January 2013, Cairo, Egypt.
- XXXth International Congress of the International Academy of Pathology, 5-10 October 2014, Bangkok, Thailand.
- Symposium on Gynaecological Pathology, a joint BDIAP and ISGyP meeting, 21st - 22nd November 2014, London, UK.
- 5th EACR-OECI Joint Training Course: Molecular Pathology Approach To Cancer 11 - 13 May 2015, Amsterdam, Netherlands.

- 11th Northern Lights Neuroscience Symposium on Brain Tumors, 11-13 June 2015, Middelfart, Denmark.
- Postgraduate Course: Diagnostic Gynecologic Pathology, September 30th - October 2nd, 2015, Linz, Austria.
- XXXI International Congress of the International Academy of Pathology and 28th Congress of the European Society of Pathology, 25 -29 September 2016, Cologne, Germany.
- The 29th Congress of the Arab Division of the International Academy of Pathology and 1st Oman Pathology Society conference, 15 - 18 November 2017, Muscat, Oman.
- “Neuropathology Workshop” in association with International Academy of Pathology - Arab Division and Oman Pathology Society, 13th - 14th April 2018, Muscat, Oman
- XXXII International Congress of the International Academy of Pathology, 14 - 18 October 2018, Dead Sea, Jordan.
- The 31st Annual Meeting of IAP-AD (International Academy of Pathology - Arab division), 23 - 26 October 2019, Hurghada, Egypt
- Annual Poster Competition (during the virtual annual BAGP meeting), June 2020, ORGANISED BY The British Association of Gynaecological Pathologists.
- 32nd European Congress of Pathology and XXXIII International Congress of the IAP, 6 - 8 December 2020 (virtual).

JOURNAL REVIEWER

As from November 2008: Indian Journal of Pathology and Microbiology (reviewed sixty+ articles), Journal of Medicine and Medical Sciences (reviewed three articles), Journal of Medical Genetics and Genomics, Biotechnic & Histochemistry, SQUMJ (reviewed one article for each).

MEMBERSHIP OF PROFICIONAL SCOCIETIES

European Society of Pathology (ESP), since 2006.

Arab Division of the International Academy of Pathology (IAP-AD).
Mansoura Oncology Association (MOA).
Oman Pathology Society (OPS).

LANGUAGES

Arabic: mother tongue.
English: Very good level of reading, writing and speaking.
French: Good level of reading and speaking, some writing.

BIOGRAPHICAL LISTINGS

Listed in Marquis Who's Who in 2010.

REFERENCES

*From **Egypt:***

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*From **United Kingdom:***

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