

Prof. Wael M. Abdel-Rahman

(Full name: Wael M. Abdel-Rahman M. Hassan)

MBBCH, MSc (Pathology), PhD (Molec Pathology)

Professor of Molecular Pathology,

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<http://scholar.google.com/citations?user=-1WcWLEAAAAAJ&hl=en>

https://www.researchgate.net/profile/Wael_Abdel-Rahman

<https://www.scopus.com/authid/detail.uri?authorId=6603240889>



Name in publication Abdel-Rahman WM

Total citations 2802, h-index 29, i10 index 45, as of Sept., 2022

Qualifications

- 1- Ph.D. 2001, Edinburgh University, United Kingdom.** (Research completed at **Cambridge University, UK**). Field: Molecular Pathology. Thesis title: “Genomic instability, deregulation of apoptosis and treatment responsiveness in sporadic colorectal cancer”.
- 2- Histopathology M.Sc. 1995,** Pathology Department, Faculty of Medicine, Zagazig University, Egypt. This was a three-part programme spanning four years: 1st Part: Immunology and Microbiology; 2nd Part: research thesis on “*Expression of P-Glycoprotein in Non-Hodgkin Lymphoma*”; and 3rd Part clinical diagnostic histopathology and basic pathology.
- 3- M.D. 1989 (M. B., B. CH., Medical Bachelor and Bachelor of Surgery), with honour,** Faculty of Medicine, Zagazig University, Egypt.

Significant Posts/Professional Experiences:

- 1. Sept. 2022 – until the present:** Chairman of Medical Laboratory Sciences Department, College of Health Sciences, University of Sharjah, UAE.
- 2. Jan. 2019 – until the present:** Full Professor, University of Sharjah, College of Health Sciences, M.L.S., Sharjah, U.A.E.
- 3. Sept. 2013 - 2019:** Coordinator, MSc/PhD program in Molecular Medicine and Translational Research, College of Medicine, University of Sharjah
- 4. Sept 2007 – 2019:** Honorary Professor, department of Medical Genetics, University of Helsinki, Helsinki, Finland
- 5. January 2011- Dec 2018:** Associate Professor, University of Sharjah, College of Health Sciences, M.L.S., Sharjah, U.A.E.
- 6. September 2007 – December 2010:** Assistant Professor, University of Sharjah, College of Health Sciences, M.L.T., Sharjah, U.A.E.
- 7. January 2002 – September 2007:**
 - Senior Scientist & Molecular Pathologist, Department of Medical Genetics, Biomedicum Helsinki, University of Helsinki, Finland.
 - Assistant Professor (on leave), Pathology Department, Faculty of Medicine, Zagazig University, Zagazig, Egypt.
- 8. April, 2001 – December, 2001:** Lecturer, Pathology Department, Faculty of Medicine, Zagazig University, Zagazig, Egypt
- 9. January, 1999 – March, 2001:** Research Fellow, Pathology Department, University of Cambridge, Cambridge, UK.
- 10. May, 2000 –March, 2001:** Honorary Specialist Registrar, Department of Histopathology, Addenbrooks Hospital, Cambridge, UK.

11. January, 1997 – January, 1999: Research Fellow, Department of Pathology, Faculty of Medicine, University of Edinburgh, Edinburgh, UK.
 12. 1995-1996 Lecturer, Pathology Department, Faculty of Medicine, Zagazig University, Zagazig, Egypt.
 13. 1991-1995 Demonstrator, Pathology Department, Faculty of Medicine, Zagazig University, Zagazig, Egypt.
 14. 1990 -1991: Internship (House Officer). Zagazig University Hospitals, Egypt
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Selected Prizes

1. 1st place, Best poster award; Annual Student Research Forum, College of Health Sciences, University of Sharjah, UAE, 2 May 2019
2. Best Presentation Award - 6th United Arab Emirates Undergraduate Research Conference. 30 April 2018, Abu Dhabi University, UAE. Also Winner in the CHS, UoS Research Forum.
3. Best Undergraduate Student Poster Award, 11th Research Forum 2017, University of Sharjah, UAE
4. Best research poster prize, Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, the 9th Dubai International Conference for Medical Sciences, 14-16 December 2016, media report Published in Al Bayan newspaper 17 Dec 2016. <http://www.albayan.ae/across-the-uae/news-and-reports/2016-12-17-1.2797880>
5. Full page Media report “Cancer’s Environmental triggers” in “The National” Newspaper, 15 Jan 2017. <http://www.thenational.ae/uae/science/study-aims-to-see-if-environmental-influences-are-behind-high-cancer-rates-in-middle-east#full>
6. Annual Incentive Award – Teaching and academic performance, University of Sharjah, 2016
7. Annual Incentive Award – Research, 2015. University of Sharjah, Sharjah, UAE
8. Prize for Panel member contribution at Al Jalila Foundation meeting 2014
9. The Best Presentation at MedLab Conference, Arab Health, Dubai, UAE, 24-27 Jan., 2011
10. Annual Incentive Award – Research, University of Sharjah, 2010
11. Best research paper prize, 5th Annual Scientific Research Forum, UoS., University of Sharjah, April 2009
12. Two Finnish and International patents on use of NAV3 as diagnostic tool in colon cancer – Methods and uses involving genetic abnormalities at chromosome 12.
13. Most common cited article Prize- Critical Review Oncology/Hematology, Elsevier Publisher, 2006- 2008.
14. Best research paper prize, 4th Annual Scientific Research Forum, UoS, University of Sharjah, 7th-8th May 2008.
15. Inclusion as a Biographee in Who’s Who in the World. Marquis Who's Who, NJ, USA & Top 100, Cambridge, UK as well as Top 100 and other databases.

Research: Appropriation & Grants

1. STUDY OF THE EXPRESSION AND REGULATION OF L-CAD IN BREAST AND COLORECTAL CANCERS AND ITS ROLE IN TUMOR PROGRESSION. (Wael Abdel-Rahman Hassan PI, team: Alya Alanyimi, Rifat Hamoudi). 40,000 AED 2022- 2023.
2. Effects of Micromeria fruticosa Extract on Colorectal Cancer in an Animal Model. (Eman Abu Gharbieh, PI), Univ. of Sharjah, 200,000 AED, Sept 2022 - June 2024
3. The role of USP27x in colorectal cancer (Mays Abu Kwik, Wael Abdel-Rahman, PI), Univ. of Sharjah, 15000 AED, Sept 2021 - June 2022
4. Dissecting the role of HSP60 (HSPD1) and interacting proteins in colon cancer metastasis and therapy (PI), 80000.00 AED, Univ. of Sharjah, Nov., 2020 – 2022,
5. Effect of Natural antioxidants on Diabetes-induced epigenetic modification in human endothelial cells – an ex-vivo/in-vitro approach, (PI: G Pintus, co: Wael Hassan, Moez Al Islam, Mawieh

- Hamad, Hilda Allam Kawsar Baig, Ameenah.Saadi) Collaborative grant UoS, 190 000AED 2020-2022
6. The role of USP37 in colorectal cancer (Ranya Al Hakm, Wael Abdel-Rahman, PI), Univ. of Sharjah, Sept 2020 - June 2021
 7. Combined inhibition of Insulin Growth Factor 1 Receptors and Autophagy to Prevent Colorectal Cancer Metastasis: A Novel Therapeutic Approach (P.I. Dr Maha Saber, Team Dr Rifat Hamoudi, Dr Iman Talaat.), MBRU-Al Mahameed research grant for 300,000AED, 2020- 2022.
 8. Evaluating the antitumor activity of 18b-Glycyrrhetic acid on various cancer cell lines, 80 000 AED (PI DR Eman Abu Gharbeih, team Wael Hassan, Khulood Bajbouj, Waseem El-Huneidi) UoS, Nov 2019 – Dec 2021.
 9. The Role of Obesity in Breast Cancer in a Cohort of Middle Eastern Population, 80 000 AED (PI DR Iman Talaat, team Wael Hassan, Rifat Hamoudi, Mohamad Rahmani, Reyad BenDardaf) UoS, Nov 2019 – Dec 2021.
 10. Profiling the expression pattern of iron regulatory proteins and intracellular iron status in breast and gastrointestinal tract cancers. 200000AED (PI DR Mawieh Hamad, team Wael Hassan, Khulood Bajbouj, Reyad BenDardaf) UoS, Dec 2017 – Dec 2019.
 11. Effect of GLP-1 agonist (Exendin-4) on proliferation, invasion, migration and apoptosis in pheochromocytoma and colorectal cancer 80000AED (PI Dr Maha Saber) UoS, Dec2017 – August 2019.
 12. Labco-UoS grant. HLM006474, a novel molecule for targeting apoptosis in colorectal and liver adenocarcinoma. PI (co-investigators: Aravind SR, Salam Mohammad, Safa Hussein, Maryam Alawi, Hajar Issa, Sharifa Almannaei), 15 000 AED sept 2017-2018
 13. Al Jalila Foundation- Role of Galanin/Galanin Receptor signaling as a potential novel therapeutic target for Colo-rectal Cancer with mutant p53. (co-investigator. Team: Dr Maha, Dr Wael, Dr Iman, Dr Rifat). 293000.00 AED, Jan 2018-2020.
 14. Coordinator of Research Group University of Sharjah. “Environment and cancer research group”. Annual budget – Operational grant 105 000 AED, Nov 2017 – Nov 2018.
 15. University of Sharjah - University Research Board (URB). Molecular Study of Colon and Breast Cancer Development in Obesity (PI) fund of AED 200,000, Nov., 2016 -2019
 16. University Research Board (URB) -Investigating the impact of ShcD in melanoma migration and survival via ROS modulation. PI Dr Sam rein Ahmed. 200 000. Nov, 2016 – 2018.
 17. University of Sharjah, University Research Board (URB) Mitochondrial and Metabolic Gene Profiling of Ramadan Intermittent Fasting in Metabolic Syndrome Patients, (PI Dr Moez Al Islam) 200 000. Nov, 2016 - 2018
 18. Boehringer Ingelheim- UoS Award (PI) Elucidation of cell death mechanisms of novel molecules CP-380736 and MPT-0B014 in colorectal and breast cancer. 11.500 AED, 2017.
 19. Coordinator of Research Group University of Sharjah. “Environment and cancer research group”. Annual budget – Operational grant only 120 000 AED, Sept 2016 – Sept 2017.
 20. Al Jalila Foundation (co-investigator, PI Dr Samrien Ahmed) Studying the phosphorylation status of ShcD in melanoma upon oxidative stress: An evidence for new therapeutic target in melanoma. Budget: 270,000AED, Jan 2017 - 2019.
 21. Boehringer Ingelheim- UoS Award (PI) Predicting Colorectal Cancer Risk in Subjects with Metabolic Syndrome in University of Sharjah Community. 15 000 AED 2016.
 22. Boehringer Ingelheim- UoS Award (co-PI with Dr Maha Saber) Significance of Galanin expression on caspase 8 –mediated apoptosis and sensitivity to chemotherapy in colon cancer cells. 15 000 AED 2016.
 23. University of Sharjah, (PI), interdisciplinary grant 135000 AED. Bisphenol A and colorectal carcinogenesis. Sep 2015 - 2017
 24. Sheikh Hamdan Bin Rashid Al Maktoum Medical Award- Optimizing the differentiation of human induced pluripotent stem cells derived from diabetic patients towards insulin secreting beta cells of pancreas. 167,500 AED, 2015 (co-investigator).
 25. Sheikh Hamdan Bin Rashid Al Maktoum Medical Award- Bone Regeneration for Dental Transplantation. 100,000 AED, 2015 (co-investigator).

26. Coordinator of Research Group University of Sharjah. “Environment and cancer research group”. Annual budget (operational, equipment) 350 000 AED June 2015 – 2017.
27. Study the Molecular Changes Associated with the Dietary Chemoprevention of Camel Milk (*Camelus dromedarius*) against Azoxymethane-Induced Colorectal Cancer in Fischer 344 Rat Model. Coinvestigator. UoS 2015.
28. Al Jalila Foundation – PI- Molecular Mechanisms of carcinogenesis by environmental toxins 2014 -2016
29. Boehringer Ingelheim- UoS Award (PI) 1-VEGF-c and response to antiangiogenic therapy in relation to the mismatch repair status of colorectal cancers 2014.
30. Boehringer Ingelheim- UoS Award (PI) 2- HIF-1 α and response to antiangiogenic therapy in relation to the p53 status of breast and colorectal cancers 2014.
31. Terry Fox Foundation grant for cancer research (P.I.) 400 000,00 AED 2012-2015
32. University of Sharjah, travel grants to EACR 2008, Nice France, Finland & China 2009.
33. University of Sharjah, personal Seed Grant, 2008-2010 (P.I).
34. University of Sharjah, Molecular Genetics Research Group, Grant for 2007/2008 (shared grant).
35. Academy of Finland, Research Costs Fund, August 2005- August 2007 (P.I).
36. Academy of Finland Research Position, August 2005- August 2007 (P.I).
37. Finnish Cancer Institute 2005-2006 postdoctoral scientist salary position (cancelled by the applicant, W. Abdel-Rahman, due to conflict with the above grant).
38. University of Helsinki Chancellor Travel grants 2004-2007.
39. Academy of Finland; Appropriation for Postdoctoral researches; 2002-2004; 87,780.00 euros.
40. Finnish Cancer Institute 2003 travel grant.
41. Finnish Cancer Institute and Sigrud Juselius Foundation grants 2002-2012 shared with Prof Päivi Peltomäki.
42. More than 10 other different grants as co-investigator with Prof Peltomaki group, Helsinki University, Finland 2001 - 2007

Research: Experience, Supervision, Editorial Boards...etc

I- Postgraduate Supervision:

1. Current Supervision: 1 PhD student at UoS & Lubick Germany (main supervisor), 2 MSc student at UoS (main supervisor)
2. Supervised and co-supervised a total of 11 MSc & 7 PhD students, both at University of Sharjah (Main supervisor) & University of Helsinki (co-supervisor/mentor).
3. Supervised and co-supervised > 30 undergraduate student projects at the University of Sharjah.

II- Editorial Boards

1. Advisory Board Member of journal “Current Molecular Pharmacology”, I. F. 3.2 Bentham Science Publishers, operating units in the United States, Japan, China, India, and the Netherlands, Headquarter UAE.
2. Editorial Board Member of World J of Gastrointestinal Oncology, Published by: Baishiding, China/USA. I.F. 3.1 Journal Highly ranked in the field.
3. Editorial Board Member of “New Emirates Medical Journal”, Bentham Science. Indexing: SJR, Scopus
4. Hamdan Medical Journal. Published by: Sheikh Hamdan Award for Medical Sciences (SHAMS), Dubai, UAE (2013 – 2020)
5. American Journal of Molecular Biology, Published by: Scientific Research Publishing Inc. (SCIRP), USA (2011 – 2020).

III- Referee for many Scientific Journals Including

1. Current Molecular Pharmacology (IF 3.4)

2. World Journal of Gastroenterology (IF 4.5)
3. World Journal of Gastrointestinal Oncology (I F 3.1)
4. Oncotarget (IF 6.3)
5. Lancet Oncology (IF 24.7),
6. Gut (IF 18),
7. Gastroenterology (IF 12.7),
- 8.
9. Colorectal Diseases (IF 2)
10. Translational Oncology (IF 4).

IV- Board Member & Referee in Scientific Competition, Grants, etc

1. Promotion committee evaluator at King Khalid University, Saudi Arabia, 2021-.
2. Evaluator at the College of Medicine student research day on Tuesday 19th February 2019.
3. Referee, College of Medicine Science days 2016 and 2017
4. Referee, postgraduate competition- 11th Research Forum 2017, University of Sharjah, UAE.
5. Chair of Research Committee, CHS, UoS, 2014 – till 2018 then as member till 2020: in charge of evaluation of all research fund, research visits and conference applications.
6. Scientific board member, Ministry of Higher Education Post Graduate Conference, Al-Ain UAE, 2016
7. Sharjah Islamic Bank Award evaluation- CHS- 2016
8. Bohringer Ingelheim _UoS Research grant, scientific Panel- 2015
9. Bohringer Ingelheim _UoS Research grant, scientific Panel- 2014
10. Executive Chair of Molecular Research Domain, in charge of refereeing and evaluation of all applications submitted from the Medical Campus to University of Sharjah Grants 2013-2014.
11. Intel- Ministry of Education, Science Arab World Referee 2012
12. Bohringer Ingelheim _UoS Research grant scientific Panel- 2013
13. Organizing/Scientific committee member, International Conference of Personalized Medicine and Targeted Therapies in Cancer, Sharjah, UAE 1st Jan to 2nd Feb 2013.
14. Intel- Ministry of Education, Science Arab World, Referee, Dubai, 2011

V- Research Achievements, Expertise

1. Identification of predisposition genes to subsets of familial colon cancer and novel findings in colorectal carcinogenesis.
2. Long experience (around 25 years) in basic molecular approaches dealing with DNA, RNA, mutation analysis and more complicated molecular techniques.
3. Successfully using expression & MiR microarray technologies in many research projects.
4. Confident with tissue culture and cell line manipulation (cloning, transfection, etc.), drug treatment, and irradiation experiments.
5. Comprehensive experience in advanced molecular cytogenetics and FISH-based technique including CGH and SKY/m-FISH together with the basic cytogenetic experience required for karyotyping human chromosomes.
6. Hold UK license in radioactive work as well as Xenografts and related small animal work.
7. Comprehensive histopathological experience that is essential for cancer research and immunohistochemistry.
8. Attended more than 100 courses about different research technologies and IT.

University & Community Services, Committees served, etc.c

1. Department representative and responsible for the AHPGS international accreditation (a German institute) of MLS Department both BSc and MSc programs, 2022.
2. Ad hoc promotion committee, Medical Lab Sciences Dept., Dr Moammad Ghalib Application for Associate Professor, April 2022.

3. Promotion committee, Associate Prof.;, Dr Majed Al Fayi, Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, King Khalid University, Abha, Saudi Arabia, Oct – Nov, 2021.
4. PhD Thesis examiner at Flinders' University Australia, Jan 2021, student name: Tajbakhsh, Ms Negara (Code - tajb0002)
5. Chair of ad hoc promotion committee, MLS, CHS, University of Sharjah, 2021- present.
6. Chair, College level student disciplinary committee, CHS, University of Sharjah, 2021- present
7. Ad hoc promotion committee, Medical Diagnostic Imaging Dept., Dr Huseyin Ozan Tekin Application for Full Professor, Jan 2022.
8. Ad hoc promotion committee, Physiotherapy Department, Full professorship of Dr Ibrahim Mustafa, March 2021.
9. Ad hoc promotion committee, Nursing Department, Full professorship of Dr Wejdan Bani Issa, March 2021.
10. Member of Graduate Studies committee CHS. 2020-2021.
11. CHS college council member of for >7 years, the latest period is from 2020 until present.
12. Thesis Examiner at PhD Program in Molecular Medicine, College of Medicine (student: Dana Zaher) June 2021
13. Thesis Examiner at MSc Program in Molecular Medicine, College of Medicine (student: Lama Lozon) May 2020.
14. Member ad hoc promotion committee (DR Lucy, Dept., Env. Health S.), College of Health Sciences, UoS April 2020.
15. Member of the college level recruitment Committee 2019/2020, College of Health Sciences, UoS.
16. Member of Research Committee, student advising committee, CHS. 2019-2020.
17. Chair of 3 Promotion Ad Hoc committees for the departments of Nursing, Clinical Nutrition & Dietetics 2017- 2019, UoS.
18. Examiner of MSc Thesis (of student Sana Al Rouh), MSc in Molecular Medicine, 2018/2019, University of Sharjah.
19. Evaluator at the College of Medicine student research day on Tuesday 19th February 2019.
20. Chair of College of Health Sciences Research & Postgraduate studies Committee Sept., 2014 till August, 2018.
21. External member of College of Medicine Post Graduate Studies Committee 2017/2018.
22. Member of the University of Sharjah Post Graduate Council for 5 years 2012 till Sept. 2017
23. Public lecture. Environmental causes of Cancer, in "Preceptor Appreciation Workshop". College of Health Sciences, UoS, 25 Jan., 2018.
24. External member of College of Medicine Research Committee 2015/2016
25. Examiner of 2 MSc Thesis (of student Gomana & Sara), MSc in Molecular Medicine, University of Sharjah, 2016/2017.
26. Scientific Advisory Board – Sharjah Institute for Medical Research, Sharjah, UAE. 2014 -2016
27. Chair and member of > 25 selection/recruitment committees for appointing Professors, Lectures & technicians at College of Health Sciences.
28. Chair and member of > 12 selection committee for appointing research assistants and postdoctoral researchers, Senior scientists at Sharjah Institute for Medical Research (SIMR).
29. Member of >5 promotion committees at College of Health Sciences, University of Sharjah 2011 - 2015.
30. A member of UoS representatives at Halal Conferences, Prince Sigkola University, Thailand 2014.
31. Panel member: The challenges and opportunities in biomedical research in the region, Al-Jalila Foundation meeting, Dubai, 2014
32. MoH license examination committee - member, Ministry of Health, Dec 2013
33. Member of the University of Sharjah Ethics Committee 2010 to 2014.
34. Given Lecture on "Research Fund applications", College of Health Sciences faculty members, 23 Oct 2014

35. Given CME Lectures at Saqer Hospital, RAK Nov., 2012 (7 CME points)
36. Member of UAE/MOH task force for Legislating stem cell therapy and applications in UAE 2012.
37. A Key member of the founding/advising committee of the “International Sharjah Biomedical Research Centre” at the Sharjah Medical Excellence Cluster (SMEC), Medical Colleges campus, currently known as SIMR (Sharjah Institute for Medical Research) and Research group leader.
38. Judge of Intel Science competition/Arab World 2011 & 2012.
39. Magazine Article in MedLab magazine, Molecular diagnosis of familial colorectal cancers – Where are we, issue 1-2011
40. Contribution to the annual Cancer Awareness Days at University of Sharjah
41. CME public Lecture on: Familial Colorectal Cancer Medical Campus and University hospital, UoS1-Mar-11.
42. Public Lecture on: Breast Cancer prevention & diagnosis, Khorfakan branch of UoS, 10-Feb-11
43. Member of the Student Affairs and Academic Advising, a CHS College level committee, since 2009 till present.
44. Member of the College Council – CHS. Since 2009 till 2011, then 2015/2016.
45. Invited Lecture at the ‘World Cancer Congress’ an International meeting, delivered a talk on ‘familial colorectal cancers’ 23-26 June 2009, Beijing, China.
46. Member and repertoire of the Student Assessment Committee ‘SAC’; College level committee, academic year 2008/2009, CHS.
47. Ad hoc –Subcommittee- on Course Alignment Biology, Anatomy & Physiology, Pathophysiology; College level committee. Member & meeting repertoire; Jan 2009; Jan 2009
48. Activity in UoS Open Days aimed at potential students, UoS, 14-25th April
49. Presentation at 1st Emirates Pathologist Meeting entitled “Applications of Immunohistochemistry in Hereditary Cancer Diagnosis”, audience Emirates Pathologists. meeting at UoS College of Medicine, 1st March 2008
50. Collaboration with National Cancer Institute, Egypt on the study of young age cancers serving Egyptian and international community, 2007 - ongoing
51. Ongoing collaboration with Department of Medical Genetics, Helsinki University, Finland, to serve the international community on cancer management. Ongoing
52. Chair and member of many Ad hoc committees: Evaluation of research projects submitted for Sharjah Islamic Bank, “Dana Gas” Prize, Tanmeyer” Prize, ...ect
53. Member of MLT Strategic planning - research committee, College level, committee member, Spring 2008, Spring 2008

At previous post – University of Helsinki

54. Established and maintained the immunohistochemistry techniques for mismatch repair proteins and other tumor markers locally. This effort has had applications in patient care and genetic diagnosis of tumor specimens in addition to many worldwide collaborative research projects.
55. Initiated international projects to address some of the health problems in local communities such as ‘the young age cancers in Egypt.
56. Participated in the local Finnish HNPCC group activities and annual meetings by giving talks and constructive discussions as well as sharing the social activities.
57. Participated in the annual joint meetings. giving talks and constructive discussions.
58. Delivered two general lectures in Biomedicum Helsinki as part of Department of Medical Genetics seminar series serving postgraduates and continuing medical education.
59. Contributed to two international societies’ activities and annual meetings, namely: The International Society for Gastrointestinal Hereditary Tumours (InSiGHT) and European association for cancer research (EACR).

Teaching

- Prepared the International (AHPGS) accreditation file for MLS Department both MSc and BSc, 2022.

- Substantial contribution to establishment of two (2) new programs and seven (7) accreditations (MLS MSc, Molecular Medicine MSc/PhD, and re-accreditation of Molecular Medicine MSc, 2 renewals of MLS-BSc, AHPGS-MLS, MSc & BSc).
- Successfully adopted various online teaching methodologies, live online lecturing, and online exams with online proctoring since the COVID19 pandemic 2020 – till present.
- Acquired CAPEX equipment fund (500,000.00 AED) to establish a cytogenetics teaching lab, UoS 2020/2021.
- Established four (4) new courses at the MSc in Molecular Medicine including: “Biol & Genet of Cancer Cell”, “Select Top in Cell Biology”, “Select Top in Molecular Biology” “MSc Molecular Medicine-Lab2”,
- Established two (2) new courses at the MSc in MLS including “Cytology & Cytogenetics”, “Research Methods”, supervised “Graduate Seminars” and Lab training.
- Organized “Research Seminars” courses at the medical campus for > 8 years.
- Establishment and teaching advanced histopathological techniques to PhD and MSc students at Helsinki University.
- The teaching methodologies and strategies are highly appreciated by students as evidenced by the excellent course evaluations reports by students.
- **Teaching track/history:**
 1. Inaugurating faculty member for the MSc & PhD program in ‘Molecular Medicine (2011) and Translational Research’ who contributed to the accreditation of the program, and coordinated the program for 7 years.
 2. Inaugurating faculty member for the MSc and contributed to its accreditation (2019).
 3. Three year as Full Professor, Seven years as Associate professor and 4 year as Assistant professor at University of Sharjah. Developed all course contents, computer based teaching and co-ordinated many course at my colleges (CHS) as well as other colleges: Human Biology course at Pharmacy.
 4. One years as Assistant Professor at Pathology Department, College of Medicine, Zagazig University, Egypt
 5. Eight (8) years as Lecturer at Pathology Department, Zagazig University, Egypt
 6. Teaching Molecular Pathology module at Cambridge University, UK.
 7. Co-supervising PhD students and giving practical teaching of histopathological techniques to graduate and postgraduate students at Helsinki University, Finland (6 years).
 8. Around 60 lectures and talks in international meetings and conferences & Periodic research talks at Departmental meetings and Seminars since 1990 till present.
- **List of taught courses over 28 years:**
 1. Pathology (General, System), tailored Pathology course for MLS students.
 2. Molecular Pathology (postgraduate level)
 3. Cytology and Cytogenetics
 4. Pathophysiology,
 5. Histology (both theory and lab),
 6. Biology,
 7. Histological techniques (both theory and lab),
 8. Genetics of Cancer Cell (postgraduate level)
 9. Research Methods and Seminars (Postgraduate)
 10. Advanced Lab techniques (postgraduate level)
 11. Co-supervising clinical practice.
 12. supervising student projects

Diagnostic Histopathology Experience

Of more than 15 years (part-time) including 1 years at the UK holding “GMC-General Medical Counsel” registration:

1. Established immunohistochemistry staining lab sections at Helsinki and Sharjah
- 2- Experience at Helsinki Univ. And at University of Sharjah in “Molecular Histopathology-immunohistochemical” diagnosis and biomarker identification of relevant to research.
2. At Addenbrook’s Hospital, Cambridge, UK, I had 1 year training in diagnostic histopathology as outlined by the Royal College of Pathologists and holding GMC registration.
3. Part time clinical attachment at Edinburgh University, UK, including weekly diagnostic seminars and 4 CME credit-approved courses in diagnostic Histopathology (2 weeks each).
4. Throughout my post as pathologist at Zagazig University (7 years) I took part in the routine histopathological diagnosis of all kind of specimens delivered to the Department.

Society Membership

1. The European association for Cancer Research.
2. The American Association for Cancer Research.
3. The Asian Pacific Society for Cancer Prevention
4. The Egyptian Medical Syndicate.
5. The Egyptian Society for Pathologists.

RESEARCH ARTICLES PUBLISHED IN REFEREED INTERNATIONAL JOURNALS.

PUBMED: <https://www.ncbi.nlm.nih.gov/pubmed/?term=abdel-rahman+w>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=6603240889>

1. Alya Alnuaimi, Vidhya A Nair, Lara J Bou Malhab, Eman Abu-Gharbieh, Anu Vinod Ranade, Gianfranco Pintus, Mohamad Hamad, Hauke Busch, Jutta Kirfel, Rifat Hamoudi, **Wael M Abdel-Rahman**. Emerging role of caldesmon in cancer: A potential biomarker for colorectal cancer and other cancers. *World Journal of Gastrointestinal Oncology*. Sep 15, 2022;14(9): 1637-1653.
2. Maha M. Saber-Ayad*, Amina Laham¹, Fatema Omar¹, Dana Zaher¹, Arya Vinod¹, Vidhya Nair¹, Maha Guimei², Lara J. Bou Mahlab, Shaista Manzoor¹, Hany Omar¹, **Wael M. Abdel-Rahman**. The Anti-diabetic Glucagon-like peptide-1 receptor agonist inhibits the Proliferation of Breast Cancer Cells by Suppressing the AKT/NFκB and MAPK Pathways. (submitted 2022).
3. Iman Mamdouh Talaat, Nada Mahmoud Yakout, Ahmed Sa Soliman, Thenmozhi Venkatachalam, Arya Vinod, Leen Eldohaji, Vidhya Nair, Amal Hareedy, Alaa Kandil, **Wael M Abdel-Rahman**, Rifat Hamoudi, Maha Mohamed Saber-Ayad. Evaluation of Galanin Expression in Colorectal Cancer: An Immunohistochemical and Transcriptomic study " Journal: *Frontiers in Oncology*. (revised 2022).
4. Madkour M I., Bou Malhab L J., **Abdel-Rahman W M.**, Abdelrahim D N., Saber-Ayad Ma, Faris M AIE. Ramadan Diurnal Intermittent Fasting Is Associated With Attenuated FTO Gene Expression in Subjects With Overweight and Obesity: A Prospective Cohort Study. *Frontiers in Nutrition* vol 8 (2022) DOI=10.3389/fnut.2021.741811
5. Hafezi, S., Saber-Ayad, M., **Abdel-Rahman, W.M.** Highlights on the role of KRAS mutations in reshaping the microenvironment of pancreatic adenocarcinoma (2021) *International Journal of Molecular Sciences*, 22 (19), art. no. 10219.
6. Bou Malhab LJ, **Abdel-Rahman WM**. Obesity and inflammation: colorectal cancer engines. *Curr Mol Pharmacol*. 2021 Sep 6. doi: 10.2174/1874467214666210906122054. Epub ahead of print. PMID: 34488607
7. Malhab LJB, Saber-Ayad MM, Al-Hakm R, Nair VA, Paliogiannis P, Pintus G, **Abdel-Rahman WM**. Chronic inflammation and cancer: The role of endothelial dysfunction and vascular inflammation. *Curr Pharm Des*. 2021 Mar 3. doi: 10.2174/1381612827666210303143442. Epub ahead of print. PMID: 33655853.
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RESEARCH ARTICLES SUBMITTED TO REFEREED INTERNATIONAL JOURNALS.

Total number manuscripts under consideration: 3

Total number of first author manuscripts under consideration: 3

Selected conference abstracts, oral presentations and proceedings (from > 120)

- Maha Saber-Ayad, Ileen Doahji; Samrien Ahmed, Shirin Hafezi, Iman Mamdouh Talaat, Kulood Bajbouj, Ejlal Omer, Tasneem Al Hamidi, Rifat Akram Hamoudi, Ritu Lakhtakia Wael M Abdel-Rahman. Autophagy-related Gene-5 (ATG5) is essential for the anticancer effect of Picropodophyllin on colorectal cancer cells. EACR 2022 Congress, Seville, 20 – 23 June 2022.
- Maha Saber-Ayad, Samrien Ahmed, Shirin Hafezi, Iman Mamdouh Talaat, Kulood Bajbouj, **Wael M Abdel-Rahman**. Downregulation of Collagen I by Insulin-like Growth Factor-1 in Colorectal Cancer Cells is mediated through Autophagy. European association for Cancer Research-The Structural Microenvironment: Breaking down the walls of cancer, Virtual event, Worldwide : 22 - 23 February 2022
- Anu Ranade, Rizwan Qaisar, Asima Karim, Mohammad Azeem, josemin.jo, Gopika Ramachandran, Vidhya Anish, Amir Ali Khan, **Wael Abdel-Rahman Hassan**, Adel Elmoselhi, zainab-m-ibrahim, Muhammed Tehsil Gul. Pharmacological inhibition of ER stress mitigates testicular pathology in hind-limb unloaded mice.' EXPERIMENTAL BIOLOGY 2022, Philadelphia, Pennsylvania, USA. April 2-5, 2022.
- Eman Abu-Gharbieh, Khuloud Bajbouj, , Naglaa G. Shehab, **Wael M. Abdel-Rahman**, Salma, Yasser Khalil Bustanji, Jithna Ganga, Waseem El-Huneidi,. Ethanolic Extract of Calotropis procera Exhibits Antitumor Effects on Human Breast and Colon Cancer Cells via Cell Cycle Arrest. EXPERIMENTAL BIOLOGY 2022, Philadelphia, Pennsylvania, USA. April 2-5, 2022.
- Anu Ranade, Rizwan, Asima Karim, Adel Elmoselhi, Vidhya Anish Nair, Josemin Jose, Gopika Ramachandran, Zainab Ibrahim, Muhammed Tehsil Gul, **Wael M Abdel-Rahman**, Mohammad Azeem, Amir Ali Khan. Pharmacological inhibition of ER stress mitigates testicular pathology in hind-limb unloaded mice. 72nd International Astronautical Congress, Dubai, United Arab Emirates, 25 – 29 October 2021
- Iman Mamdouh Talaat, Maha Saber-Ayad, Nada Mahmoud Yakout, **Wael M Abdel-Rahman**, Rifat A Hamoudi. Exploring the role of galanin in colorectal cancer progression: An immunohistochemical and transcriptomic study. Conference: PISA (Pathobiology for Investigators, Students, and Academicians)_ASIP (American Society for Investigative Pathology), 9-13 November 2020.
- Sondos Harfil, Ra'ed AbuOdeh, Wael M Abdel-Rahman, K. N. S. Sirajudeen, Hamid Jan Jan Mohamed. Prevalence of Metabolic Syndrome Associated Factors in the Adult Population in UAE: Effect of Gender and Age. Obesity Society for presentation at ObesityWeek®, November 2-6, 2020. Published abstract: Obesity | VOLUME 28 | SUPPLEMENT S2 | NOVEMBER 2020
- Eman Abu-Gharbieh¹, Waseem El-Huneidi, Naglaa G. Shehab, Khuloud Bajbouj, Arya Vinod, Ahmed El-Serafi, Lara Bou Malhab, Wael M. Abdel-Rahman. Anti-tumor activity of the ethanolic extract of *Micromeria fruticosa* on human breast and colon cancer cells. EXPERIMENTAL BIOLOGY 2020, San Diego Convention Center, San Diego, California, USA. April 4-7, 2020
- Iman Talaat, Duaa Alnusairat; Ibrahim Yaseen Hachim; Nada-yakout; Mahmood Yaseen Hachim; Wafaa.s.ramadan; Wael M. Abdel-Rahman. Differential Expression of Insulin-Like Growth Factor-1 Receptor in Breast Cancer Subtypes: A Marker of Early Metastasis in HER-2

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