

Name	Sara hassan A Agwa		Birth date	1/1/1972	Gender	female	profile photo 
Country	Egypt	Title	Professor	Professional	Clinical pathology & molecular genomics		
Workplace	Ain Shams University, Faculty of Medicine MEDICAL AIN SHAMS RESEARCH INSTITUTE MASRI			degree	MD IN CLINICAL PATHOLOGY		
Address	109 OSMAN BEN AFFFAN STREET , HELIOPOLIS ,CAIRO EGYPT			Passport number	A25205692		
Phone	0122343 1070		H INDEX : 12		Email	SARAKARIEM@GMAIL.COM Sara.h.agwa@med.asu.edu.eg	
Education experience	<p>- MEDICAL DOCTORATE (MD) DEGREE IN CLINICAL & CHEMICAL PATHOLOGY NOV 2005 ,AIN SHAMS FACULTY OF MEDICINE.</p> <p>- MASTER'S DEGREE (MSc) in clinical & chemical PATHOLOGY MAY 2000, AIN SHAMS FACULTY OF MEDICINE.</p> <p>- BACHLOR DEGREE OF MEDICINE AND SURGERY - FACULTY OF MEDICINE AIN SHAMS UNIVERSITY, VERY GOOD WITH HONOUR 1994</p> <p>- https://scholar.google.com/citations?hl=en&user=HZHTfoMAAAA</p> <p>- https://www.researchgate.net/profile/Sara-Agwa/unconfirmed</p> <p>-</p>						
Work experience	<p>- <u>DIRECTOR OF MOLECULAR GENOMIC UNIT AT MEDICAL AIN SHAMS RESEARCH INTITUTE (MASRI):</u></p> <p>- <u>Leading the technical accreditation process in ISO- CAP ACCREDITATION FOR DIAGNOSTIC GENOMIC TESTING OF ONCOLOGICAL DISEASES.</u></p>						

- **Leading a lot of Genomic research projects in Faculty of medicine , Ain Shams University (listed below)**
- **Responsible for the educational curriculum concerning Academic teaching related to Molecular Genomics Techniques**

- **CONSULTANT OF CLINICAL PATHOLOGY & MOLECULAR GENOMICS (2019 – UNTIL NOW) MEDICAL AIN SHAMS RESEARCH INSTITUTE JULY 2019 UNTIL NOW**
- **ASISTANT CONSULTANT (2013-2019) OF CLINICAL PATHOLOGY AND MOLECULAR EPIGENETICS IN MOLECULAR GENOMICS LABS OF AIN SHAMS UNIVERSITY RESEARCH INSTITUTE.**
- **LECTURER FELLOW OF CLINICAL PATHOLOGY & MOLECULAR GENOMICS (2007-2013)**
- **1995-1996 : Resident at Ain shams university hospitals**
- **1996- 1997: clinical pathology specialist at Ain shams diagnostic laboratory hospitals**

1997-2007:Researcher collaborative at medical research center

SCIENTIFIC MEMBERSHIPS

- **Member** of the Egyptian Society of Hematology and Oncology
- **Member** of the Egyptian Society of Laboratory Medicine.
- **Member** of the Egyptian Society of Thrombosis and Hemostasis
- **Member** of the African Society of Laboratory Medicine.
- **Consultant** of clinical pathology and Molecular genomics at Air Force Specialized Hospital .
- **Member** of the BGICC Faculty (Breast Gynecological & immune -oncology International Cancer conference) .
- **Member** of the IGILUC Faculty (International Gastrointestinal, liver & Uro_ Oncology conference).

	<ul style="list-style-type: none"> • Member Of Faculty of Medicine Ain Shams Research Institute Board (MASRI). • Member of The Alliance For Medical Research In Africa
Key Responsibilities:	<p>Key Responsibilities:</p> <ul style="list-style-type: none"> • Complies and adheres to the Medical Staff By-laws, Code of Medical Ethics, Rules and Regulations of the Medical Staff, departmental and clinical policies, procedures and objectives, continuous quality improvements objectives, safety, environmental and infection control standards, and abide by the rules and regulations of the Faculty Of Medicine Ain Shams University • Ensures compliance with the EGAC- ISO- Regulations. • Evaluates, updates, and develops new laboratory tests/techniques in clinical molecular genetics, genomics, oncology and bioinformatics. • Reviews and interprets patients' results reliably, accurately and makes a report with integrity. • Participate in educational programs for the staff, medical technology students, interns and residents, and in the continuous education of laboratory staff and physicians. • Take part in the selection of high-quality state-of-the-art equipment for molecular, genomic and bioinformatics operations. • Oversee quality control and quality assurance including setting quality standards for new tests and procedures and participate in the proficiency testing. • Communicate with all physicians, clinicians, healthcare practitioners, and admin regarding patient safety and patient care. Provides education and training to patients and families. • Provides high quality patient care in all aspects of Ain Shams University Hospitals according to approved clinical privileges. • Assists in the development and implementation of techniques and practices that support maximizing the utilization of all resources within the Genomic Unit and across MASRI • Contributes and provides consultative services for technical aspects of clinical testings. • Monitors and checks on regular basis the compliance of the staff by the quality and safety standards and MASRI policy bylaws. • Participates in research projects based on established policy. • Delivers presentations and training sessions to promote health, wellbeing and conducts health promotion activities. • Develops, updates and administers policies, programs, procedures and training for the entity. • Consults with management and recommend corrective measures or procedures where required. • Utilizes highly specialized clinical reasoning skills to continually review, analyze, evaluate and adjust interventions and set goals in consultation with service users, and healthcare professionals. • Utilizes expert selection, application and interpretation of a range of assessment tools and outcome measures to practice relevant to patient with complex needs. • Organizes information in a sensitive and non-discriminatory format in order to communicate potentially sensitive, contentious information gathered during the assessment / intervention process. • Prioritizes workload, delegating to others having a flexible approach to working

	<p>defined by a recognition of service users' needs and service requirements.</p> <ul style="list-style-type: none"> • Performs autonomously within multiple environments across various community and leisure facility settings, guided by highly specialized knowledge and utilizing skills as acknowledged within the scope of practice by Faculty Of Medicine Ain Shams Institute (MASRI). • Responsible for the continual monitoring, evaluation, and development through audit and research, of the quantity and quality of the service. • Leads on the training and support to other professionals and care staff within specific interventions and in the implementation, monitoring and evaluation of service.
	<p>Training courses &workshops</p> <ul style="list-style-type: none"> • Training course in healthcare quality concepts and total quality management Oct. 25-29 2018. • Training course for two weeks in China (<u>Fudan University cancer Hospital</u>) In Biobanking &Molecular Techniques July 2018 . • The workshop of Hematopathology and immunohistochemistry at the National Cancer Institute, Cairo University January 25th -27th, 2009. • Contribution in the" Second Egyptian bioinformatics workshop" held at Nile University. Dec 26th 2017. • Training course at Thermofisher for Hcv-drug resistance. November 2016 • Ion torrent workshop by Thermofisher. 8th November 2017
	<ul style="list-style-type: none"> • Workshop in "Advanced Statistical Analysis workshop in Academic Research" 20th-21st March 2018 • Workshop entitled "Academic Leader Training _Manage the change " Middle East North Africa Faimer Regional Institute 25/7/2018 • Workshop entitled " Research Funding &Collaboration " 2_3/4/2017 in collaboration with Egyptian Knowledge Bank • Workshop entitled Academic Publishing 24th of October By Nature Research Academies 2018 • Workshop entitled " Academy on Human Bioethics ". 6 November 2018 by Nature Research Academies • Workshop entitled " The power of Next generation sequencing " By AGBL 4-September 2018. • Workshop entitled "Tissue Culture Hands On " In Medical Ain Shams Research Institute 20-21 April 2019.

- Workshop entitled " First **NGS Hands On** " in collaboration with Thermofisher. 19,20,21 January 2019 ,In Medical Ain Shams Research Institute (MASRI) .
- Workshop entitled " Medical NGS Bioinformatics " 18-19 April 2019 .

Scientific Activities:

- Attending the international workshop of nutrition and prevention of Noncommunicable Diseases "The Finish Experience in Prevention of type 2 diabetes" on the 15th of March 2009 at the regional office of WHO, EMRO, Cairo, Egypt.
- Participation in the annual scientific international conference on "Human Genome": A revolution in modern Biochemistry and molecular biology from 22-23 April 2008.
- Attending the 30th Annual Conference of the Egyptian society of Hematology in Collaboration with the Egyptian Association of Transfusion medicine Jan 21-22, 2009.
- Attending the Annual conference of the Egyptian society of laboratory

medicine "News and Views" 5-7 April 2008- Cairo Egypt.

- Attending the Annual Conference of the Egyptian Society of Laboratory Medicine "Seeking Excellence in Laboratory Practice" 28-30 Marsh 2009. Cairo, Egypt.
- Attending the 6th International Congress of the Egyptian Society of Pediatric Hematology and Oncology, 27th – 28th Marsh, 2008. _
- Attending the 22 Annual conference of the Egyptian society of laboratory medicine 18-20 April 2012
- Attending the 34 th Annual conference of the Egyptian society of Hematology 9-10 January 2013
- The Scientific Conference of International Society of Bleeding and Thrombosis world Thrombosis Day 5 th November 2015.
- Attending the 36 th Annual conference of the Egyptian society of Hematology 9-10 March 2016 .
- Attending The Egyptian Stem cell transplantation &hematological Disease Association Conference (ESHA) 18_19 may 2016.
- Attendance International Gastrointestinal, liver & Uro_ Oncology conference 5_6May 2017.
- Attending conference " world Thrombosis Day :Annual International meeting of the Egyptian Society of Thrombosis & Hemostasis 1_2 November 2017.

	<ul style="list-style-type: none"> • Giving a Lecture in The 7 th International Gastrointestinal, liver & Uro_ Oncology conference 10_11 May 2018 IGILUC. <p>Thesis supervision:</p> <ul style="list-style-type: none"> • Glutathione S-Transferase Gene with susceptibility to Juvenile Idiopathic Arthritis (2011) • The antiproliferative effect of Origanum Majanum on hepatocarcinoma cell line (2016) • Micro RNA expression levels as diagnostic biomarker for hepatocellular carcinoma in patients with hepatitis C (2017)
	<ul style="list-style-type: none"> • Biochemical study on the antiproliferation effect of the components of Mulberry (Morus Albal) plant on hepatocellular cell line HEPGZ (2013) • Detection of methicillin resistant gene in Staphylococcus species (2017) • The anti-proliferative effect of Hesperidins on hepatocarcinoma cells • Association of serum vitamin D and c4 to chrome P450 27BI Gene Polymorphism in viral hepatitis C Egyptian patients (2015) • The potential association of Apo- lipoprotein E and Interlukin-28B Genetic variants with hepatitis C virus recurrence following liver transplantation (2015) PHD Thesis • Biochemical study for evaluation of sequential infections with influenza and novel respiratory batteries • Serum micro RNA-122 levels in Egyptian patients with chronic hepatitis C virus genotype 4 infection before and after treatment with direct acting antiviral drugs (2017) • Efficacy and safety of certain antivirals on Egyptian HCV patients: Gene polymorphism-based study (2017) • The antiproliferative effect of Origanum majorana on human hepatocarcinoma cell line.(2016)
Representative achievements,	<p><u>RESEARCH PROJECTS IN MOLECULAR GENOMIC FIELD:</u></p> <ul style="list-style-type: none"> - Principal investigator of the project funded by STDF “ THE POWER OF TWO : NEXT GENERATION SEQUENCING AND BIOINFORMATICS IN TRANSCRIPTOMIC INTEGRATIVE ANALYSIS OF HEPATOCELLULAR CARCINOMA IN EGYPTIANS.” (2020-2022).

	<ul style="list-style-type: none"> - Principle investigator of the project of the academy of scientific research and technology (ASRT) under the name of: implementation of comprehensive molecular and next generation sequencing based genetic testing strategy to improve and prevent fatal outcomes of coronary artery disease related to familial hypercholesterolemia. (2018-2020) - Principal Investigator & collaborator of the project funded by NAMURU-3 in a project titled sentinel MOLECULAR surveillance for severe acute respiratory illness (sari) in the Eastern Mediterranean Region(EMR).
	<ul style="list-style-type: none"> - Principal Investigator of the Explore study funded by faculty of Medicine Ain Shams University Explore study: Retrospective study from November 2019 February 2020 on severe acute respiratory illness (SARI) to access the presence or absence of SARS-COV-2 in patients' samples by Real-time PCR. Registered on clinical Trails .gov - Principal Investigator of Strain study: Strain study: To access the Egyptian Covid-19 patients viral whole genome by NGS and compare to the international worldwide database. Data Egyptian Samples is available on GISAID (hCOV-19/Egypt/MASRI, submission date 2020-07-07 , 2020-07-06, 2020-06-24 by Hesham elGhazaly, Sara.H.A Agwa et al. - Sharing as head of Molecular Lab Team in ProDAAC study project (Prognostic effects of direct acting antiviral (DAA) therapy on immune cells balance in chronic hepatitis C) funded by ASRT , Collaborative Research Project between MD Anderson Cancer Center and Ain-Shams University. - Sharing in MATREX (MASRI CANCER BIOBANK AND TOTAL GENOMIC SOLUTIONS) capacity building project funded by STDF - Principal Investigator of the project funded by the Higher Ministry of Education For Laboratory accreditation

<p>Others (including important performance obtained, part- time work in international academic organizations, and important reports at international academic conferences Etc.)</p>	<p>REPORTS AT INTERNATIONAL ACADEMIC ORGANIZATIONS.</p> <p>1- Abstract 2512: BRCA1 and BRCA2 mutations and its clinical relevance among egyptian breast cancer women , July 2021 , DOI: 10.1158/1538-7445.AM2021-2512 Conference: Proceedings: AACR Annual Meeting 2021; April 10-15, 2021 and May 17-21, 2021; Philadelphia, PA</p> <p>2- ABSTRCT IN UNITED EUROPEAN GASTROENTEROLOGY : 26th UEG Week - Abstract Submission System https://www.abstractserver.com/ueg2018/absmgm/1/2 Abstract Preview - Step 3/4 - print version</p>
	<p>Topic: 7.10. Viral hepatitis C: Clinical aspects Title: COMPARISON OF THE LEVELS OF CIRCULATING MICRORNA-122 IN HCV-RELATED CIRRHOSIS PATIENTS WITH AND WITHOUT HEPATOCELLULAR CARCINOMA Author(s): Foda E.1, Ibrahim W.1, Saleh S.1, Mohamed A.2, Ellessawy H.3, Abdulhafiz E.4, <u>Agwa S.5</u>, Abd Elsamee A.5 Institute(s): 1Ain</p> <p>3- ABSTRACT IN QJM (An international journal of medicine) oxford academic On the occasion of the 39 th Annual Conference Of Ain Shams Faculty of Medicine 10th-15th March 2018 , the abstract titled “GENATIC STUDIES ON THE EFFECT OF HUMAN MESENCHYMAL STEM CELL ON HEPATOMA CELL LINE (HuH7), MM HUSIEN,SAYED ALI , H HAMED SWELIM, H AHMED AMR, F A ZAHRA, M MOTADA HEIDAR, <u>S H AGWA</u> , A MOHAMED MAHER, QJM: volume 111, issue suppl-1DECEMBER 2018, hcy200.205,https://doi.org/10.1093/qjmed/hcy200.205</p>

Publications :

Wilkinson E, Giovanetti M, Tegally H, et al. A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa.*Science*.2021;374(6566):423-431.doi:10.1126/science.abj4336 **Agwa, S. H. A.**

Tegally H, San JE, Cotten M, et al. The evolving SARS-CoV-2 epidemic in Africa: Insights from rapidly expanding genomic surveillance. *Science*. 2022;378(6615):eabq5358. doi:10.1126/science.abq5358 **Agwa, S. H. A.,**

Hanan Shaat ^{a b}, Mohamed Sharafeldin ^{c d e}, Amany Mostafa ^f, Eman Ismail ^b, Mohamed K. Hassan ^{a g}, Mohamed H. Alkordi ^h, El-Zeiny Ebeid ⁱ, Hesham Elghazaly ^j, **Sara.H. Agwa**^k, Sherif M. Shawky ^a (2024) .Microfluidic-based fluorescence enhancement of silica-embedded carbon dots for direct detection and quantification of unamplified HCV RNA in clinical samples. journal/analytica-chimica-acta <https://doi.org/10.1016/j.aca.2024.343396>.

Marwa Matboli ^{a i}, Shaimaa Hamady ^b, Maha Saad ^c, Radwa Khaled ^{c d}, Abdelrahman Khaled ^e, Eman,MF. Barakat ^f, Sayed,Ahmed Sayed ^f, **SaraH.A. Agwa**^g, Ibrahim Youssef ^h(2024) non-coding-rna-research Journal ,Innovative approaches to metabolic dysfunction-associated steatohepatitis diagnosis and stratification <https://doi.org/10.1016/j.ncrna.2024.10.002>

Agwa, S. H. A., Elzahwy, S. S., Hossam, N., Yahia, Y. A., Hamady, S., Sherif, N., Elshazly, A., Darwish, R. M., Hashim, J. O., Adly, A., Abd Elsamee, A. M., Shamekh, R., Roushdy, M. M. S., & Matboli, M. (2024). Discriminatory power of a circulating multinoncoding RNA panel in acute coronary syndrome subtypes: Towards precision detection. *The international journal of biochemistry & cell biology*, 169, 106531. <https://doi.org/10.1016/j.biocel.2024.106531>

Ali HS, Kamel MM, **Agwa SHA**, Hakeem MSA, Meteini MSE, Matboli M. Analysis of mRNA-miRNA-lncRNA differential expression in prediabetes/type 2 diabetes mellitus patients as potential players in insulin resistance. *Front Endocrinol (Lausanne)*. 2023;14:1131171. Published 2023 May 8. doi:10.3389/fendo.2023.1131171

Albadawy R, Hasanin AH, **Agwa SHA**, et al. Prospective insight into the role of benzyl propylene glycoside as a modulator of the cGAS-STING signaling pathway in the management of nonalcoholic fatty pancreas animal model. *Biol Res*. 2023;56(1):11. Published 2023 Mar 13. doi:10.1186/s40659-023-00423-8

Agwa SHA, Elghazaly H, El Meteini MS, et al. Identifying SARSCoV-2 Lineage Mutation Hallmarks and Correlating Them With Clinical Outcomes in Egypt: A Pilot Study. *Front Mol Biosci*. 2022;9:817735. Published 2022 Mar 8. doi:10.3389/fmolb.2022.817735

Ali HS, Boshra MS, **Agwa SHA**, Hakeem MSA, Meteini MSE, Matboli M. Identification of a Multi-Messenger RNA Signature as Type 2 Diabetes Mellitus Candidate Genes Involved in Crosstalk between Inflammation and Insulin Resistance. *Biomolecules*. 2022;12(9):1230. Published 2022 Sep 2. doi:10.3390/biom12091230

Matboli, M., Hasanin, A. H., Hamady, S., Khairy, E., Mohamed, R. H., Aboul-Ela, Y. M., Raafat, M. H., Elsebay, S. A. G., Emam, H. Y., Shamekh, R. S., & **Agwa, S. H. A.** (2022). Anti-inflammatory effect of trans-anethol in a rat model of myocardial ischemiareperfusion injury. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 150, 113070. <https://doi.org/10.1016/j.biopha.2022.113070>

Agwa, S. H. A., Elghazaly, H., Meteini, M. S. E., Shawky, S. M., Ali,

M., Abd Elsamee, A. M., Sayed, S. M., Sherif, N., Sharaf, H. M., Alhadidy, M. A., & Matboli, M. (2021). In Silico Identification and Clinical Validation of a Novel Long NonCoding RNA/mRNA/miRNA Molecular Network for Potential Biomarkers for Discriminating SARS CoV-2 Infection Severity. *Cells*, 10(11), 3098. <https://doi.org/10.3390/cells10113098>

Tawfick, A., Matboli, M., Shamloul, S., **Agwa, S. H. A.**, Saad, M., Shaker, H., Selim, M. M. Y., Salim, M. S., Radwan, A., Shorbagy, A. A., & Mousa, W. (2022). Predictive urinary RNA biomarkers of kidney injury after extracorporeal shock wave lithotripsy. *World journal of urology*, 40(6), 1561–1567. <https://doi.org/10.1007/s00345-022-03996-3>

Albadawy R, **Agwa SHA**, Khairy E, Saad M, El Touchy N, Othman M, El Kassas M, Matboli M. Circulatory *Endothelin 1*-Regulating RNAs Panel: Promising Biomarkers for Non-Invasive NAFLD/NASH Diagnosis and Stratification: Clinical and Molecular Pilot Study. *Genes (Basel)*. 2021 Nov 18;12(11):1813. doi: 10.3390/genes12111813. PMID: 34828420; PMCID: PMC8619934.

Albadawy, Reda, **Sara H. A. Agwa**, Eman Khairy, Maha Saad, Naglaa El Touchy, Mohamed Othman, and Marwa Matboli. 2021. "Clinical Significance of HSPD1/MMP14/ITGB1/miR-68815P/Lnc-SPARCL1-1:2 RNA Panel in NAFLD/NASH Diagnosis: Egyptian Pilot Study" *Biomedicines* 9, no. 9: 1248. <https://doi.org/10.3390/biomedicines9091248>

Agwa, S. H. A., Elzahwy, S. S., El Meteini, M. S., Elghazaly, H., Saad, M., Abd Elsamee, A. M., Shamekh, R., & Matboli, M. (2021). ABHD4-Regulating RNA Panel: Novel Biomarkers in Acute Coronary Syndrome Diagnosis. *Cells*, 10(6), 1512.

<https://doi.org/10.3390/cells10061512>

Agwa SHA, Kamel MM, Elghazaly H, et al. Association between *Interferon-Lambda-3* rs12979860, *TLL1* rs17047200 and *DDR1* rs4618569 Variant Polymorphisms with the Course and Outcome of SARS-CoV-2 Patients. *Genes (Basel)*. 2021;12(6):830. Published 2021 May 28. doi:10.3390/genes12060830

Albadawy R, Hasanin AH, **Agwa SHA**, et al. Rosavin Ameliorates Hepatic Inflammation and Fibrosis in the NASH Rat Model via Targeting Hepatic Cell Death. *Int J Mol Sci*. 2022;23(17):10148. Published 2022 Sep 5. doi:10.3390/ijms231710148

Ebeid, F. S. E., Ragab, I. A., Elsherif, N. H. K., Makkeyah, S., Mostafa, S., Eltonbary, K., Matbouly, S., Mostafa, A., Goma, H., **Agwa, S. H.**, Hafez, H. M., Girgis, S., El Gendy, Y. G., & El-Sayed, M. H. (2021). COVID-19 in Children With Cancer: A Single Low-Middle Income Center Experience. *Journal of pediatric hematology/oncology*, 43(8), e107e1081. <https://doi.org/10.1097/MPH.0000000000002025>

Ebid AIM, Ahmed OA, **Agwa SH**, Abdel-Motaleb SM, Hagag RS. Impact of IL28B gene polymorphism on efficacy and safety of direct acting antivirals in hepatitis C Egyptian patients. *Int J Clin Pharm*. 2020;42(4):1207-1216. doi:10.1007/s11096-020-01085-2

Matboli M, Shafei AE, **Agwa SHA**, et al. Identification of Novel Molecular Network Expression in Acute Myocardial Infarction. *Current Genomics*. 2019;20(5):340-344. doi:10.2174/1389202920666190820142043

Safety, efficacy and cost of two direct-acting antiviral regimens: A comparative study in chronic hepatitis C Egyptian patients Abdel-Hameed Ibrahim Mohammed Ebid PhD1 | Osama Ashraf Ahmed

MD2 | **Sara Hassan Agwa** MD3 | Sara Mohamed Abdel-Motaleb
PhD1 | Amira Mohamed Elsayy PhD1 | Radwa Samir Hagag MSc4 J
Clin Pharm Ther. 2019;00:1–8. DOI: 10.1111/jcpt.13104

Efficacy of Plasma microRNA-143 and microRNA-550a as Potential Diagnostic and Prognostic Biomarkers for Chronic Hepatitis and Hepatocellular Carcinoma in Egyptian Patients .Shadia AH Fathy1, Manal A Emam1, **Sara HA Agwa2**, Christina A.Soliman1 and Sarah El- Nakeep*3 **BJSTR**. 2018.02.000652 ISSN: 2574-1241 DOI: 10.26717

The antiproliferative effect of Origanum majorana on human hepatocarcinoma cell line: suppression of NF-κB S. A. Fathy1, M. A. Emam1*, **S. H. Abo Agwa2**, F. A. Abu Zahra3, F. S. Youssef4, R. M. Samil Fathy et al. Cell. Mol. Biol. 2016, 62 (10): 80-84ISSN: 1165-158X doi:10.14715/cmb/2016.62.10.13

**PRINCIPAL CO-ORDINATOR OF THE FOLLOWING
MOLECULAR GENOMICS EVENTS & EDUCATIONAL
WORKSHOPS**

- **Molecular research course OF** Medical Ain Shams Research Institute for the 10th Breast Gynecological & immune -oncology International Cancer conference 18-19 January 2018.
- **Coordination of Molecular research course OF** Medical Ain Shams Research Institute (MASRI) IN the 11th Breast- Gynecological & immunoncology International Cancer conference 17-18 january **2019 BGICC**.
- **Coordinator of Molecular research course OF** Medical Ain Shams Research Institute (MASRI International Gastrointestinal, liver & Uro_ Oncology conference 18-19 April **2019 IGILUC**.
- **workshop director and coordinator** of the post -conference 19-21 January 2019 first " **NGS HANDS ON** “ workshop in faculty of medicine Ain Shams University.

- **Workshop coordinator of the intra -conference workshop "**
MEDICAL BIOINFORMATICS OF NGS " 18 APRIL 2019
IGILUC

-Principal Co-Ordinator of the **Genomic Course of MASRI institute**
at BreastGynecological & immunoncology International Cancer
conference 17-18 january **2020 BGICC.**

- **WORKSHOP DIRECTOR OF THE WORKSHOP ENTITLED**
“NGS HLA TYPING” 22-23 JANUARY 2021

- **WORKSHOP DIRECTOR OF THE WORKSHOP ENTLTLED”**
HANDS ON ; WHOLE TRANSCRIPTOME SEQUENCING , 11-
13 JANUARY 2020

- Principal Co-Ordinator of the **Genomic Course of MASRI**
institute at BreastGynecological & immunoncology International
Cancer conference **BGICC.**Jan , 2021, 2022,2023, 2034