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Mohamed Ibrahim Ali Abd El - Aty Madkour Zaher

- Personal Information
- **Cellular Phone :** +971-55-9804074
 - **E-mails:** Mohammed.zaher@gmail.com
mmadkour@sharjah.ac.ae
 - **Date of Birth:** Jan 1st 1981
- Career Objective
- My research experience is t in the field of Molecular Immunology, Proteomics and Clinical Biochemistry applications in Diabetes and some Inflammatory diseases. I understand that success in any task in the workplace requires responsibility, inspiration and cooperation, and I work hard to achieve my goal.
- Languages
- **Arabic: Native Language.**
 - **English:** Excellent verbal and written skills.
Business English Certificate Vantage, University of Cambridge
 - **French:** Fair verbal and written skills.
- Academic Degree
- All my certificates (High school, B.Sc and M. Sc) have been evaluated by International Educational Education Research Foundation, INC. (IREF), California, USA and have been evaluated for US equivalency.**
- 2004 – 2007
- **M.Sc in Biochemistry (Biomedical Science, Immunology), Mansoura Univesity (Egypt). Completed May 2007 (GPA 3.46).** Thesis – Immunological and Biochemical changes accompanying fluride ion exposure.”
- 1997 – 2001
- **B.Sc in Biochemistry & Chemistry, Mansoura University, Egypt.** Completed May 2001 (GPA 3.08). (I ranked 5th in the final evaluation of the College of Science.) These data are available under ID 905358 on Mansoura University’s internet site <http://mudb.mans.edu.eg/graduates>
- Current position
- **Lecturer, Biomedical Sciences**
Medical Laboratory Sciences Department, College of Health Sciences, University of Sharjah, Sharjah, UAE.
- Licenses
- Ministry of Health (MOH) license in UAE, Medical Laboratory Technologist.
 - Health Authority Abu Dhabi (HAAD) in UAE, Laboratory Technologist.
 - Syndicate of professions science license as Medical Laboratory Scientist in Egypt.
- Professional memberships
- Egyptian Syndicate of scientific profession (NO. 68419) www.essp-egypt.com
 - Protecting Human Research Participant (IRB certification number 772489), Office of Extramural Research, National Institute of Health (NIH). Oct 2011.

*Technical Experience***Excellent technical experience in the following techniques:**

- LSRFortessa Flowcytometry (**Trained in BD Europe, Erembodegem, Belgium, 2011**) Also, (Trained by Prof. Dr. Gerald E. Marti, FDA, NIH, USA in Oncology Center, mansoura university, 2008).
- LUMINEX for microarray as a part of research in proteomics and genomics (**Trained in xMap university, Luminex cooperation Europe, Oosterhout, Netherland; June 2010**).
- Highly Advanced Olympus microscope BX41 & Inverted IX71 with DP71 camera.
- RT-PCR & PCR and Nanospectrophotometry
- Primary and cell line culture
- Fully Automated and Manual ELISA
- Western Blotting
- Electrophoresis
- Monoclonal techniques and its applications
- CMIA (chemiluminescent microparticle immunoassay) technique.
- Routine clinical laboratory techniques as I spent a two year rotation in the following labs – Clinical chemistry, Hematology, Microbiology, Blood Bank and Immunology.
- Experienced with LIMS (Lab Information management system).
- Familiar with the INSTANT and SPSS statistical programs.

Have a good background on:

- ARIAII Cell Sorting, BD, Belgium
- FISH Technique, Gene electrophoresis and DNA sequencer in Oncology center, Mansoura university.

Some of Lab Equipment I Used:

- LSRFortessa flowcytometer and FACSDIVA software.
- Fully Automated ELISA Instruments using Liquid Handling Robots (TECAN, DAVINCI (Biomerieux), DADE Behring)
- Agilent HPLC, smart cycler & ABI for RT-PCR and Luminex 200 for multiplex microarray.
- Automated processing system Track Master from Abbott which include 14 different instruments attached together.
- Fully Automated Clinical chemistry analyzer (Architect, Hitachi, Axiam)
- Fully Automated Hematology analyzer (CELL DYN, Sysmex) and Blood gas

Work Experience

From Sep 2013 till present

**Lecturer, Biomedical Sciences,
Medical Laboratory Sciences Department, College of Health Sciences, University of Sharjah, Sharjah, UAE.**

- Teaching and evaluating relevant subjects in our Medical lab sciences discipline areas; such as Molecular Genetics, Biochemistry, Clinical Chemistry and Immunology. Also, general course for Health Science college as Biology and Anatomy & Physiology.
- Assessment of the students in clinical areas and provide them with Biomedical sciences lab skills.
- Identifying health problems; planning and conducting relevant research with our research group in Sharjah Institute for Medical Research (SIMR).
- Advising the students with guiding and counseling with respect to academic performance, career opportunities, and pursuit of advanced degrees
- Evaluating teaching and learning activities; and directing and coordinating courses assigned from time to time.
- Carrying out administrative duties, including chairing committees like (Accreditation committee, Time table committee) serving as member of an academic department, and representing the university in the community at large.

From Sep 2009 to Aug 2013

**Biomedical Sciences Lab In Charge and Teaching Assistant,
Qatar University, Biomedical Program, Health Sciences Department, Doha, Qatar.**

- Work as research associate with faculty members and the graduates on their research projects, (Two projects granted by Qatar foundation (NPRP)).
- Preparation the budget for the department and to maintain equipments and consumables .
- Work as teaching assistant in the students laboratories (Clinical Chemistry, Genetics, Physiology).
- Member of the safety committee in the college.
- Assisting the students with laboratory skills .
- Preparation of Biomedical Sciences lab to the NAACLS Accreditation requirements

From March 2006 to August 2009

**Senior Medical Laboratory Technologist,
Disease Prevention and Screening Center (a reference lab for the WHO),
Ambulatory Health Services, Health Authority Abu Dhabi, Abu Dhabi, United Arab Emirates (UAE).**

- Worked as TRACK MASTER of APS (Accelerator Processing system), ABBOTT.
- Responsible for Safety, Manual Handling and Ergonomics lectures (Instructor) to colleagues in Sheikh Khalifa Medical City (SKMC), UAE.
- Responsible for safety precautions & preventive measures for infectious disease.

- Enhance the laboratory standard according to JCIA and updating SOPs.
- Supervise & follow the quality control program.
- Supervise the periodic maintenance of medical instruments and submit monthly report on laboratory instrument efficiency.
- Help in solving technical & administration problems in the laboratory section.
- Ensure the accuracy of the results before putting it on computer system.
- Attend meetings, conferences and scientific lectures within the specialty.
- Perform any other duties that are required concerning the specialty.
- Participate in performance appraisal of routine work.
- Participate in training of the new technicians.
- Submit full efficient medical reports on the individual cases.
- Participate in arranging the request form & monthly / annually statistical data.

From 2nd Nov 2003 to 1st March 2006

**Medical Laboratory Scientist,
Children's Hospital, Mansoura University, Mansoura, Egypt.**

- Researcher in Immunology lab using the applications of Monoclonal techniques.
- Assist in many research projects related to leukemia and lymphma.
- Work closely with mice model (Ehrlich mice) infected by hepatic viruses and Ehrlich with Ascites tumor.
- Work in factories field with the workers to collect samples from them to study the immunological change with the inorganic ion exposure.

From April 2002 to 1st Nov 2003

Instructor (Academic researcher)

Have a scholarship in faculty of science (New Damietta), Mansoura University.

- Responsible for teaching students in Biochemistry lab.
- Prepare teaching materials, technique and outlines for courses.
- Controlling student marks, tests and evaluating their results.
- Guiding and supervising students on curriculums and syllabi.
- Teaching Assistant in Biochemistry Department labs in the practical courses

Teaching Activities

At highly standard universities; Mansoura university, Qatar university (Biomedical Sciences) and University of Sharjah (Medical Lab Sciences), I Taught many different course in Medical Lab Sciences program;

- Molecular Genetics & Biochemistry
- Immunology & Clinical Chemistry1 & 2.
- Urine & Body Fluids and Immunohematology (Blood Bank).
- Biology & Anatomy and Physiology as a service courses for the all departments in the College of Health Sciences.
- Instructor for Mandatory Courses (Safety & Emergency plans) in Preventive Medicine, AHS, SEHA, HAAD, Abu Dhabi.

- Research Area of Interest and participation
- ▲ Molecular Immunology, Proteomics and Clinical Biochemistry applications in diabetes and some inflammatory diseases.
 - ▲ Anti-carcinogenic effect of polysaccharide extracted from Mushrooms, Study on Erich mice.
 - ▲ Cytokines studies on many kind of tumors, Biochemistry and Genetics research center, Children Hospital, Mansoura university, Egypt.
 - ▲ Antioxidants changes and it's affect in Diabetes, Sickle cell Anemia and thalassemia patients.

Submitted Research publication & Conferences

- Accepted poster "**Hepcidin mediates estrogen-dependent changes in serum iron availability in humans**". In 5th World Congress on Diabetes & Metabolism, Las Vegas,USA, 3-5 November 2014.
- Hayder Hassan, Amitta Attlee, Veena Raingar, **Mohamed Madkour** and Samir Awadallah (2017): **Proprotien Convertase Substitin/ Kexin type 9 (PCSK9) and Metabolic Syndrome components among young adult females**. Diabetes & Metabolic syndrome: Clinical Research & Reviews, doi;10.1016/j.dsx.2017.03.12.
- Estrogen enhances serum iron availability in premenopausal women by down regulating hepcidin synthesis. Manuscript submitted Recently to the Biomedical Journal

Students projects

Co-author with Prof Dr Samir Awadallah

- Increased Serum Levels Of Betatrophin In Patients With Type 2 Diabetes Mellitus
- Kidney Function Among Male Bodybuilders Taking Protein Supplement
- Relationships of Salivary Adipocytokines, Diet Policy and Physical Activity with A nutrition Status in Adults Emirati Females.

Co-author with Dr Mohamed Ghaleb

- The anti-tumor Effects of Dendritic Cell Exosome Secretions
- Phenotypic comparison of Exosomes in Serum from Smokers and Non- Smokers.

Workshops & Conferences

- Invited speaker in **Clinical Institute of Molecular Biology, University of Kiel, Germany**, under title "Estrogen enhances serum iron availability in premenopausal women by down regulating Hepcidin synthesis", 3 – 5 Feb 2016.
- Participate as a co-author in the Third Arab Emirates Undergraduate Student Research Competition, Abu Dhabi university, May 21, 2015
- "Cancer Treatment and Nanomedicine with Success Stories" seminar. Sharjah university, May 19, 2015
- Developing Superior Medicine Using Nanotechnology – An Idea Whose Time has Come" Seminar. University of Sharjah. May 10, 2015
- Arab Lab Conference, World trade Center, Dubai, UAE. 23-26 Mar 2015.
- Arab Health Conference, World trade Center, Dubai, UAE. 26-29 Jan 2015.
- "Happy Genes" seminar. Organized by the College of Health Sciences, the University of Sharjah. Dec 2014.
- Boehringer Ingelheim-UOS Research Award Program 1st round Fall 2014, Conducted Clinical Training, Thursday 18 Sep 2014

- “Research Ethics Faculty Development Workshop” organized by the College of Medicine, the University of Sharjah. February Monday 9, 2015. Presented by Prof. Henry Silverman.
- Attended Abcam seminar covering: Optimization of Western Blotting, Optimization techniques for Immunocytochemistry and Immunohistochemistry, Sharjah Institute of medical Research (SIMR), Sharjah University, UAE. 28th January 2014
- The First Regional Conference: Nutrition Challenges in The East Mediterranean Region, world Health Organization collaborated with University of Qatar, March 28-29, 2011.
- Health Awareness Day, University of Qatar, 7th April, 2010.
- Two days Lab Safety short course, Lab safety institution – Weill Cornell Medical College, 28 -29 Apr 2011.
- Speaker in occupational Health day, Environmental and occupational health department, Sharjah University (28/11/2007), under title "Biochemical and Immunological changes accompanying Fluoride ion Exposure on the workers".
- International CLL workshop, Training courses and Clonality Diagnosis, clinical Pathology Department, Mansoura Oncology Center in Collaboration with FDA, NCI, NIH, Bethesda, USA, (Oct 28 – 30, 2008).
- The sixth scientific international conference for clinical pathology in faculty of medicine Mansoura University (Sep 25 to 26, 2002).
- Gastro-Intrology and Hepatic Surgery Association Meeting, Palestine Hotel, Alexandria, Egypt. (Sep 2003)
- Seminar on Basic Operation of Flameless Atomic Absorption Spectrophotometry.

Training

- LSRFortessa Flow cytometer, trained in BD Europe, Belgium, 2011.
- LUMINEX for multiplex microarray as apart of research in proteomics and genomics (Trained in xMap university, Luminex cooperation Europe, Oosterhout, Netherland; June 2010)
- Active communication skills, Art of Meeting, Creativity and conference organization. By Dr. Samir Abd Elhady ElHanafy, Training Specialist, Cheminova pharmaceutical International (Spain).
- Presentation & Advanced Selling Skills Workshop. (Sep 2003)
- By Dr. Mohammed Roshdy, Training specialist, Egyphar pharma Company.
- Practical training and theoretical courses on Molecular Biology and Immunology, Biochemistry Research Center in Gastroenterology center, Mansoura University.
- Training on BD Vacutainer System in preventive medicine, Abu Dhabi by BD Diagnostics Company – preanalytical systems.

COMPUTER SKILLS

Excellent in dealing with :

- Windows All Editions
- Computer hardware
- Microsoft Office Package
- Internet, C++ and Visual Basic

References

1. Prof. Hassan Aziz, professor of Biomedical Sciences, ASCP examiner, NAACLS member and Inspector, Director of Biomedical Program, Qatar University. E mail Hassan.aziz@qu.edu.qa (my director from Jan 2013 to Aug 2013)
2. **Prof. Dr. Nasser Rizk**, MD, PhD, professor of Physiology, Biomedical program, Health Science Department, Qatar University. E.mail: nassrizk@qu.edu.qa
3. **Prof. Dr. Lester Hardegree**, professor of Biomedical Science, Director of Biomedical program, Health Science Department, Qatar University. E.mail: l.hardegree@qu.edu.qa (supervisor from Sep 2009 till Jan 2012)
4. **Prof. Dr. Elshahat Toson**. professor of Immunology and Biochemistry, Faculty of science (Damietta), Mansoura University, Egypt. Tel. No.+20107482521. E-Mail. Eatoson@yahoo.com.
5. **Prof. Dr. Zainab Khazaal**, Director of Disease prevention and Screening center (DPSC), SEHA, Abu Dhabi, UAE. E.mail: zkhazal@ahs.ae