Curriculum Vitae

Personal Data:

Name: Mona Omer Ahmed Awad Ekarim

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Profile:

I am a clinical microbiologist with a Ph.D. degree; I have both Academic (teaching & research) and Professional experiences. My academic background includes teaching clinical microbiology branches (bacteriology, virology, and mycology) to students of medical programs as well as coördinator of the Medical Laboratory Sciences program at Napata College for over two years. Professional experience: I have more than 16 years of experience in diagnostic laboratories. I also have experience in management, leadership, and quality improvement as I worked for 5 years as the head of quality assurance in Sudan's National Directorate for blood transfusion services. As a researcher, my interests lie in infectious diseases and the Blood Bank. I have supervised both postgraduate and undergraduate students in their microbiology research.

Academic Qualifications:

PhD in Microbiology	**2017**	**Sudan Academic of Science**
Master Microbiology in Tropical medicine (Excellent)	**2007**	**Sudan Academic of Science**
Bachelor in Medical Laboratory Science (V.good)	**2002**	**Sudan University of Science & Technology**

Work Experience:

- **March 2021 to date : Assistant Professor of microbiology** at Medical Laboratory Program in Napata College- Khartoum.
- **September 2018 –March 2021: Coordinator** of Medical Laboratory Program and **Assistant Professor of microbiology** in Napata College- Khartoum.
- **March 2021 to date: Assistant Professor of microbiology (Part time)** at Dentistry faculty, Sudan University of Science & Technology.
- **July 2019 to date ; Researcher** at **Bioscience Research Institute - Ibn Sina University**
- **2008 up to date : Medical Laboratory Specialist at National of Blood Transfusion Directorate Khartoum-Alqasr St., Khartoum (Sudan)**

***2008 -2013** **Medical lab specialist at Transmitted Transfusion Infection Lab.**

***June 2013- to Sept.2018** **Head of Quality Assurance Department**

***October 2018 up to now** **Quality Assurance Officer**

- **2016 to 2018:** Worked as lecturer of medical microbiology in faculty of Pharmacy ,Elrazi University.
- **2016 up to 2018: Researcher Assistant in Institute of Endemic diseases.** (DNA **extraction for all type of samples, Handling PCR and Real time PCR, Gel electrophoresis in Agarose and Acrylamide, Evaluation of result by gel documentation system, handling ELISA and cell culturing techniques, participation in journal club activities, and supervise new trainee) and assisted PhD researchers and MSc students with general research and laboratory management.**
- **29/4/2005-30/1/2008**: **Laboratory technician in Lamab Naser Medical center Khartoum** (Handling all routine investigations, ZN smear, and chemical pathology)**.** 6/2/2003- 16/2/2004: Laboratory technician in the central Laboratory Omdurrnan

- **Military Hospital Sudan** (Handling chemical pathology, hematology, microbiology, and serological laboratories investigation).

Summary of Teaching Experience:

- **Teaching bacteriology, virology and Basic Mycology for Medical laboratory undergraduate Students in Napata college.**
- **Teaching Basic microbiology for Dentistry and Nurse undergraduate Students at Napata College.**
- **Teaching Basic microbiology and immunology for Dentistry undergraduate Student at Sudan Universityof Science & Technology.**

Summary of Laboratory Experience:

- **Good medical laboratory experience in teaching and laboratory investigations.**
- **RT.PCR for Covide19.**
- **Molecular techniques (**DNA & RNA Extraction from various materials & different type of method / Polymerase Chain Reaction (PCR) & Multiplex PCR /Real time PCR).
- **Immunology** (Enzyme Linked Immune Sorbent Assay (ELISA)/ Protein Extraction/ SDS Polyacrelamyed Gel electrophoresis (SDS page)/ Western Blotting/ Microarray).

Work contributions in quality assurance department

As part of quality assurance department in Blood Transfusion services team I involved in a great number of different activities such as:

1. **I was one the committee members that developed the National Blood Transfusion Policy (2017) and Strategic plan (2018).**
2. **I was one of contributors of National Blood Transfusion Standard.**
3. **I participated several training programs include (Quality Management system, Donor management, Donor counseling, TTI and infection control).**
4. **Participate in development of blood donor counseling guidelines**
5. **I participated in the development and review of technical SOP of blood bank and quality manual.**
6. **I participate in many supervisory visits**

Scientific Activities:

- **2021:** External Examiner for Master Students, faculty of Medical Laboratory Sciences, Department of microbiology, Sudan University of Science & Technology \Khartoum.
- **2020:** External Examiner, faculty of Medical Laboratory Sciences, Department of microbiology, National University\Khartoum.
- **2016-2017:** Supervision of technical lab support of SUKO Nationwide Schistosomiasis and STH Mapping Project, in White Nile state- Sudan.
- **2014-2017:** Principal Investigator of Research: Sputum Mycobacterium Load and Cytokines Biomarker of Stimulated Whole Blood Cells in Sputum Smear Negative Pulmonary Tuberculosis Sudanese Patients.
- **2012- 2013:** Principal Investigator of Project: Evaluation of the Diagnosis of SmearNegative Tuberculosis Khartoum, Gadarif and Kassala States-Sudan (Project funded from WHO).
- **January- August 2007**: Documentation & data analysis of TB cases registered in different TB centers, Sudan National Tuberculosis Program (SNTP).

Poster:

- Poster titled "Sputum **Mycobacterium Load and Cytokines Biomarker of Stimulated Whole Blood Cells in Sputum Smear Negative Pulmonary Tuberculosis Sudanese Patients"** in the Ninth EDCTP Forum Conference in Portugal from17-21 September 2018.

Conference (International):

1. Attended the **2nd Tackling Infections to Benefit Africa (TIBA)** Annual General Meeting (AGM) was hosted by TIBA Ghana from September 16 to 18 **2019** at the Fiesta Royale Hotel in Accra, **Ghana.**
2. Attended the **29th Regional Congress of the International Society of Blood Transfusion (ISBT)** is organized by International Society of Blood Transfusion (ISBT) held from June 22 - 26, **2019** at Basel, **Basel- Stadt, Switzerland.**
3. Attended the **Ninth Forum .*Clinical research and sustainable development in sub-Saharan Africa****: the impact of North-South partnerships* in **Lisbon, Portugal** from 17 to 21 September **2018.**

Training Courses and Workshop (International) :

- **Course 2019:** ISBT Transfusion Research of Young Investigator Training**.** "I TRY IT". **ISBT Academy**.
- **07 Sep 2019 – 13 Sep 2019:** Workshop "Molecular Approaches to Clinical Microbi" Held at the Wellcome Genome Campus, Hinxton, Cambridge in **Kenya.**
- **12-16 November 2018**: attendance 8th Infectious Disease in Africa symposium in **Cape Town-South Africa.**
- **25-26 April 2018:** Training course entitled "EDCTP Financial and Project Management Training" in Entebbe, **Uganda.**
- **16-19 March 2013**: Training course on the processing method of VIPS plasma and cryoprecipitate in ECBS Egyptian Company for Biological Sciences- **Egypt**

Training Courses and Workshop (Local) :

- **10-14 February 2019:** Workshop "The First International Training Workshop on Mycetoma" organized by Mycetoma Research Center and World Health Organization (WHO) in Khartoum-Sudan.
- **3-6 October 2018:** Workshop "Scientific Writing Support" - Khartoum.
- **24- 27 April 2017**: Workshop "Total Quality Management System in Blood Transfusion Services" - Khartoum.
- **12th -14th Macrh-2016**: Training course entitled "Hands-on Course on Microbial Genomics" - Soba University Hospital.
- **1 to 2 of June 2016**: Attended workshop "Procurement for Non-Procurement
- Practitioners" held by National Medical Supplies Fund in collaboration with United Nations Development Programme, Sudan.
- **12-9-2015**: Attended "American Society for Microbiology Workshop on Scientific Writing and Publishing" at University Of Science and

Technology- Khartoum.

- **31 May-1 June 2015**: Training course on "PhD Research Proposal Writing" in Khartoum –Sudan (DAAD Alumi Association Sudan Education Development Centre for Health Professions).
- **15 Dec.2013- 9Jan.2014**: Course on Molecular Approach to Tropical Medicine Research, Tropical Medicine Research Institute- Sudan .

National Conferences:

- **25 - 26 March 2017**: Attended the Conference "Importance of DNA/RNA sequences and Bioinformatics Tools in Developing Medical Microbiology Fields", Omdurman Islamic University.
- **4 – 6 December 2015**: Attended the 4 Conference of Sudanese Society of Clinical Biology and the Conference of Arab Federation of Clinical Biology, Sudan.
- **8 December 2013**: Attended as participant the (1) International Conference of Medical Laboratory in Sudan.

Memberships:

- Membership of Africa Society for Blood Transfusion (AFSBT).
- Membership of African Society for Laboratory Medicine
- (ASLM). Membership of American society for Microbiology (ASM**).**
- Membership of Sudanese Union of Medical Laboratory Scientists**.**

Skills:

Ability to interact effectively with people

Good team leader Problems solve creatively

Formulation and developing new scientific ideas Hard worker with high tolerance to work pressure Good at time Management

Excellent Documentation Hands-on self-starter

Computer skills (MS office/Excel /Internet)

Bioinformatics

Statistical analysis (SPSS and Graphpad)

Publication:

1- Eltay. E.G, Gismalla .B.G, Mukhtar .M.M, **Awadelkarim M.O.A**. Punica granatum peel extract as adjunct irrigation to nonsurgical treatment of chronic gingivitis. Complement Ther Clin Pract. **2021** Apr 2;43:101383. doi: 10.1016/j.ctcp.2021.101383. Epub ahead of print. PMID: 33862350.

2- Omer S, Franco-Jarava C, Noureldien A, **Omer M**, Abdelrahim M, Molina I, Adam I. Impact of placental malaria on maternal, placental and fetal cord responses and its role in pregnancy outcomes in women from Blue Nile State, Sudan. Malar J. **2021** Jan 9;20(1):35. doi: 10.1186/s12936-021-03580-x. PMID: 33422078; PMCID: PMC7797158.

3- Mohamedahmed KA, Abakar AD, **Ahmed MO**, Mukhtar MM, Nour BY. The Role of TNF-α Levels as Predictive Diagnostic Biomarker Among Children with Severe Falciparum Malaria in Endemic Area in Sudan. IJAHMR. **2019**;3(7):1-6.

4- **Omer, Mona**. "PO 8392 Sputum Mycobacterium Load And Cytokines Biomarker Of Stimulated Whole Blood Cells In Sputum Smear-Negative Pulmonary Tuberculosis Sudanese Patients." **(2019):** A32-A32.