

Curriculum Vita

Personal Profile:

As a driven and passionate Medical Entomologist with 7 years of international field and lab work experience involving managing multi-country research projects. I am looking for a PhD opportunity to study the Mosquito-borne Viral Diseases. Additionally, I studied the mosquito transcriptomic variation and population genetics in light of Insecticide Resistance, at LSTM- University of Liverpool through Wellcome Trust Fellowship in Public Health and Tropical Medicine. I am planning to build outstanding research career in the research and control of the Arboviruses enabling me to contribute in reducing their global burden.

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Academic Qualifications:

Sep 2016 – Aug 2017: Master in Molecular Biology of Parasites & Disease Vectors
Liverpool School of Tropical Medicine (LSTM)

Mar 2015- Mar 2016: Postgraduate Diploma of Research Methodology and Biostatistics
University of Medical Sciences and Technology

Nov 2005-Sep2010: Bachelor of Science (Honor-2nd Upper)-Zoology, Applied Entomology
University of Khartoum-Sudan.

Positions Held:

Apr 2016 up to date Wellcome Trust Masters fellowship in Public Health and Tropical Medicine

Sep 2014- Up to date Scientific Research Fellow at Institute of Endemic Diseases
University of Khartoum

Sep2013- Aug 2014 Research Scientist Assistant at US Naval Medical Research Unit No.3 (NAMRU-3)
Vector Biology Control & Research Unit, Cairo, Egypt

Oct2010- Aug 2013 Scientific Research Assistant at the Department of Medical Entomology
National Public Health Laboratory-Ministry of Health, Sudan

Jan 2011-Sep 2013 Scientific Research Assistant at the Sterile Insect Technique Project - Tropical
Medicine Research Institute-Ministry of Science & Technology (secondment)

Dec 2010-Dec 2012 Independent Scientific Researcher (Outbreaks Investigator) at Federal Ministry of
Health, Department of Epidemiology

Dec2010- Dec 2011 Part-time, Scientific Research Assistant at the Department of Biotechnology
Africa City of Technology

Nov2010- Aug 2013 Collaborative Teaching Assistant at the College of Science
University of Khartoum, teaching practical of:

Grants, Missions & Membership:

1. 200068/Z/15/Z: Wellcome Trust Masters fellowship in Public Health and Tropical Medicine. 2015
2. Grant for multi-country technical work, N68171-13-1-0119, US Department of Navy.
3. TDR/EMRO fund, Entomological and socioeconomic determinants affecting Dengue prevalence in Kassala area, Sudan, with ID no. SGS14/34.
4. Mission for World Health Organization (WHO), African Programme for Onchocerciasis control (APOC), Mapping and Delimitation of the level of transmission of Onchocerciasis, Cytotaxonomical Identification & Separation of the Simulium Complex, at Sudan & Ethiopia
5. Member of Pan African Mosquito Control Association (PAMCA).
6. Member of Roll Back Malaria (RBM) Vector Control Working Group (VCWG).
7. Member of International Society for Infectious Diseases (ISID).
8. Alumni of the International Brain Research Organization (IBRO).
9. Member of the British Entomological Society.
10. Member of the American Society of the Tropical Medicine and Hygiene (ASTMH).
11. Member of the American Committee of Medical Entomology (ACME).
12. American Committee on Arthropod-Borne Viruses.
13. Member of The Royal Society of the Tropical Medicine and Hygiene.
14. Member of the Royal Society of Biology.
15. Member of the Royal Entomological Society.
16. Member of the Microbiology Society.

International Collaborative Research Projects:

- ❖ **2016 – Up to date** Investigating the mechanisms of carbamates and organophosphates resistance in the major malaria vector in Sudan and the vector evolution and speciation, with **LSTM**
- ❖ **2013 – 2014** Black Fly breeding sites mapping through Atbra River-Sudan & Ethiopia, Delineation of Onchocerciasis transmission zones and vectors identification using Cytotaxonomy with **WHO/APOC** as Co-Investigator.
- ❖ **2013 – 2014** Prediction of Rift Valley Fever Outbreak in Sudan, with Massachusetts Institute of Technology (**MIT**), as Co-Investigator.
- ❖ **2012 – 2013** Risk Assessment of Yellow Fever (YF) Viral Activity in Sudan, with **Pasteur Institute & WHO**, Co-Investigator.
- ❖ **2010 – 2011** Dengue Outbreak Surveillance & Control in Kassala, Sudan, with Ministry of Health, as Epidemiologist.
- ❖ **2009 – 2010** Effect of Soil on Aquatic Stages of the Mosquito, Sudan, with University of Khartoum, as Principle Investigator.

Publications, Conferences and Meetings:

- Identification of risk factors associated with cases of visceral leishmaniasis from non-endemic areas in Gedarif state, Sudan. 2017. Nouh S. Mohamed, M. Sc.; Hussam A. Osman, Ph. D; Mohamed S. Muneer, MD; Abdallah M. Samy, Ph. D; Ayman Ahmed, M. Sc.; Anwar O. Mohammed, Ph. D; Muzamil M. Abdel Hamid, Ph. D; Arwa Hassan Elaagip, Ph. D. Accepted by Parasites & Vectors
- Conference Proceeding: Swarm participation of sterile Anopheles arabiensis males on the field in Sudan. 11/2013; at proceeding of: Entomology 2013, ESA's 61st Annual Meeting, At Austin, Texas, Volume: ESA's 61st Annual Meeting
- Conference Proceeding: Sterile Insect Technique (SIT) Sudan experience, Obstacles & Achievements, The International Society for Neglected Tropical Diseases (ISNTD) Bites 2013, Vector control & disease surveillance, at Royal Geographical Society, London, Oct 15th 2013
- Tellal B Ageep, David Damiens, Bashir Alsharif, **Ayman Ahmed**, Elwaleed HO Salih, Fayez TA Ahmed, Abdoulaye Diabaté, Rosemary S Lees, Jeremie RL Gilles and Badria B El Sayed Participation of irradiated Anopheles arabiensis males in swarms following field release in Sudan. Malaria Journal 2014 13:484.

- Tellal B Ageep, Bashir Alsharif, **Ayman Ahmed**, Elwaleed HO Salih, Fayez TA Ahmed, Mohammed Y. Korti, Ahmed A. Algam, Abdelhakeem I. Mohammed, Alhussein A. Hassas and Badria B El Sayed. 2015. Implementation of sterile insect technique against malaria vector Anopheles arabiensis in North Sudan. The 10th Scientific Conference of the National Centre for Research, Khartoum, Sudan, December 2015.
- Muzamil M. Abdel Hamid, **Ayman Ahmed**, Arwa Elamin, Musab Ali Albsheer, Abdelmohaymin A. Abdalla, Nouh Mahgoub, Shaza Alkandow, Mohamed Muneer, Mutaz Amin. 2016. Multiplicity of infection and genetic diversity of P. falciparum isolates from patients with mild and severe malaria in Gezira state, Sudan. The fifth Molecular Approaches to Malaria Conference was held at Mantra Beach Resort in Lorne, Australia, February 2016.
- Muzamil M. Abdel Hamid, Sara A. Abuelmaali, Arwa H. Elaagip, Mohammed A. Basheer, **Ayman Ahmed**, David Weetman. 2016. Impacts of small-scale agricultural practice on insecticide resistance in the malaria vector Anopheles arabiensis in Khartoum State, Sudan. Roll Back Malaria (RBM) Vector Control Working Group (VCWG-11) Annual meeting, Geneva-Switzerland January 2016.
- Participated in the International Meeting of Neglected Tropical Diseases (NTDs) Mapping Results Dissemination, Addis Ababa-Ethiopia 2014.
- Participated in the Roll Back Malaria (RBM) Vector Control Working Group (VCWG) Annual meeting, Geneva-Switzerland 2015.
- Participated in the Sixth Annual Conference of The Post-Graduate & Scientific Research Conference, University of Khartoum, Khartoum-Sudan 2015.
- Participated in the Seventh Annual Conference of The Post-Graduate & Scientific Research Conference, University of Khartoum, Khartoum-Sudan 2016.
- Participated in organizing the Health in the Humanitarian Situation conference at LSTM 2016.
- Participated in the Zika and other emerging Infections conference at University of Liverpool 2016.

Some of my Professional Training:

No	Name of event	Place
1	Transcriptomic data management, Biostatistics, Reports writing, Bioinformatics, Control of the Vector-borne Diseases and their Vectors, Research Design and Implementation, Parasite transgenesis & Insect molecular biology, Disease Vectors Behavior and Control, data management using R	Liverpool School of the Tropical Medicine(LSTM)
2	Malaria	Swiss Tropical and Public Health Institute (SwissTPH)
3	Medical Entomology	Pasteur Institute
4	Old & New Method in Surveillance of Vector-Borne Diseases, and Molecular Approach to Tropical Medicine Researches	United Nation Development Program (UNDP)
5	Principles of Taxonomy in Diseases Vectors Sampling, Preservation & Identification	Sudan Federal Ministry of Health
6	Cytotaxonomy, and Project Formulation & Proposal Writing	World Health Organization (WHO)
7	Vector Control & Net Delivery System, and Malaria Control Policy	Public Health Institute
8	Using Remote Sensing and Geographic Information System in Surveillance Disease Vectors, Statistical Analysis Using Stata, Spatial and Ecological Modeling of Infectious Diseases, Problem Based Learning, and Molecular Epidemiology	University of Khartoum
9	Biostatistics & Data Handling	Tropical Medicine Research Institute(TMRI)
10	Medical Statistics Using Stata	Timberlake and London School for Hygiene and Tropical Medicine
11	Geographical Information System (GIS)	Soft Star Training Center
12	Biotechnology Techniques	National Center for Research.
13	Bioinformatics Technology	Professional Labs, India
14	Bioinformatics Trends on Molecular Biology	Omdurman Islamic University
15	Micro RNA & DNA Chip Technology	Africa City of Technology

16	Applications of total quality assurance in Microbiology laboratories	National Public Health Laboratory
17	Project Management	United Nation Population Fund (UNFPA)

Skills:

- Project formulation, Planning and Management.
- Problems solving skills, resourceful and handling the lab & fieldwork pressure delicately.
- High responsibility, commitment and good communication skills.
- Perfect at using Computer & Internet.
- Leadership & Good teamwork member.

Languages:

- a) Arabic (mother tongue).
- b) English (fluently reading, writing and communication).

References:

- **Mark Q. Benedict, PhD**
Centers for Disease Control and Prevention (CDC)
1600 Clifton Road Atlanta, GA 30329-4027 USA
US mobile: [1-404-547-9340](tel:1-404-547-9340), International (contact when traveling): [1-404-890-5223](tel:1-404-890-5223)
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- **Tarig B. Higazi, Ph.D.**
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