

## **CURRICULUM VITAE**

### **Ahmed Hussein El Imam Ahmed**

**Title:** Associate professor.

**Date and place of Birth:** 1963, Kosti, Sudan.

**Nationality:** Sudanese.

**Marital Status:** Married with three sons and one daughter.

**Religion:** Islam.

**Language:** Arabic and English

**Computer skills:** All Microsoft Office and bio-statistical analysis (SAS and SPSS) programmes.

**Address:**

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### **QUALIFICATIONS:**

- **PhD** (Pathology and Parasitology) 2011, Faculty of Veterinary Medicine, University of Khartoum, Sudan.
- **M.V.Sc** (Parasitology) 1999, Faculty of Veterinary Medicine, University of Khartoum, Sudan.
- **B.V.Sc** 1988, Faculty of Veterinary Medicine, University of Khartoum, Sudan.

### **PROFESSIONAL EXPERIENCE:**

#### **1) Academic experience:**

- Associate professor: Medical Laboratories Technology Division, Department of Microbiology (Parasitology), College of Applied Medical Sciences, Jazan University, Saudi Arabia 29.9. 2016 till now.

- Assistant professor: Medical Laboratories Technology Division, Department of Microbiology (Parasitology), College of Applied Medical Sciences, Jazan University, Saudi Arabia 2014 -2016.
- Assistant professor: Department of Parasitology, Faculty of Medicine and Health Sciences, University of Elimam Elmahadi, Kosti, Sudan, 2011-.2014
- Lecturer: Department of Parasitology, Faculty of Medicine and Health Sciences, University of Elimam Elmahadi, Kosti, Sudan, 1999-2011.
- Teaching assistant: Department of Parasitology, Faculty of Medicine and Health Sciences, University of Elimam Elmahadi, Kosti, Sudan. 1999.
- Project Team Leader: Kosti Epizootics Office, White Nile State, Sudan, 1990-1999.

❖ **Courses:**

- Jazan University, Saudi Arabia:
- Assistant professor at the College of Applied Medical Sciences for teaching the following courses:
- Parasitology courses (theory and practical) for Medical Laboratories Technology and Clinical Nutrition Divisions.
- Professional Ethics course (theory) for Medical Laboratories Technology.
- University of Elimam Elmahadi, Sudan:

Assistant professor at the Faculty of Medicine and Health Sciences for teaching the following courses:

- ✓ Faculty of Medical laboratories, University of Elimam Elmahadi:
  - Parasitology and Entomology courses (theory and practical) for 2<sup>nd</sup> 3<sup>rd</sup> and 4<sup>th</sup> classes, for 13 years.
  - Research Methodology course
- ✓ Faculty of Medicine, University of Elimam Elmahadi:
  - Cell Biology (theory and practical) course.
  - Parasitology and parasitic diseases (theory) course for medical students during the preclinical level.
  - General pathology (theory) course.

- Tropical diseases (theory) course.
- ✓ Faculty of Public Health, University of Elimam Elmahadi:
  - Parasitology and Entomology courses (theory and practical).
  - Control of parasitic diseases course (theory).
  - Vectors control course (theory and practical).
- ✓ Faculty of Nurse, University of Elimam Elmahadi:
  - General pathology course (theory).
- Par timer in other university:

Par timer assistant professor at the following universities:

- ✓ Kosti Ahlia University: Teaching the following courses:
  - Cell biology (theory and practical) course.
  - Botany and Zoology (theory and practical) course.
- ✓ The Open University of Sudan (Kosti branch): Teaching the following courses:
  - General Biology (theory) course.
  - Cell biology (theory) course.
  - Botany (theory) course.
  - Zoology (theory) course.
  - Microbiology (theory) course.

❖ **Workshops and training courses:**

- Basic course of academic staff professional, Professional Development Centre, Higher Education Academic Staff, Ministry of High Education, Sudan, 2013.
- Advance practical training course in Molecular biology, during scientific visit to Department of Vet. Tropical Diseases, University of Pretoria, South Africa – 2009.
- Intensive course in GIS, Rageem Establishment for Service and Training, Khartoum North, Sudan, 2009.
- Intensive practical training course in Remote Sense, Rageem Establishment for Service and Training, Khartoum North, Sudan, 2009.

- Course in Disease Identification, Mapping and irradiation, university of Mansora, Egypt, 2007.
- Intensive practical training course in Molecular biology, Suba Regional Reference Laboratory, Ministry of Science and Technology, Suba, Sudan, 2006.
- Intensive course in computer science and SPSS, Computer Centre, University of Elimam Elmahadi, Kosti, Sudan, 2005.
- Intensive course in distance learning, the Open university of Sudan, 2005.
- Training course in Research Methodology and Scientific writing, University of Elimam Elmahadi, Kosti, Sudan, 2004.
- Workshop in Entomology and vectors control, Ministry of Science and technology, Sudan, 2003.
- Educational Planning course, Medical Educational Development and research Centre, Faculty of Medicine, University of Gezira, Sudan, 2002.
- Research Methodology Course for Trainers, Educational Development Centre for Health Professions, Faculty of Medicine, University of Khartoum, Sudan, 2001.
- Course on Novel Approaches to Management of Livestock Ticks, International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya, 1998.
- Intensive and practical course in Meat Hygiene and Technology, The Regional Training Centre for Meat Inspection, Hygiene and Grading, Ministry of Animal Resources, Sudan, 1991.

## **2) Practical Laboratory skills:**

- ❖ Molecular biology:
  - DNA extraction.
  - Gel documentation.
  - PCR.
  - Reverse Line Blot assay (RLB) PCR.
  - Cloning and sequencing.

- Loop-mediated isothermal amplifications (LAMP) PCR.
- ❖ Entomology:
  - Tick taxonomy.
  - Dissection of ticks salivary glands, staining and determination of its vectorial capacity.
  - Tick rearing.
- ❖ Diagnostic and research techniques:
  - Immuno-fluorescence antibody test (IFA) test.
  - Enzyme lines Immuno sorbent assay (ELISA) test.
  - Tissue cell culture.
  - Splenectomy and immuno-supresion of experimental laboratory animals.
  - Histo-pro.
- ❖ GIS and Remote sensing:
  - GIS techniques and analysis.
  - Processing and interpretation of images.
  - Disease mapper.

### 3) Research experience:

#### ❖ Writing research proposals for grants.

I submit the following research proposals:

- Detection and discrimination between different *Theileria* parasites in sheep by Reverse Line Blot (RLB) PCR Hybridization Assay. Submitted to, University of Elimam Elmahadi. The proposal was funded and the practical work was done at the Department of Veterinary Tropical Diseases, Faculty of Veterinary Science, University of Pretoria, South Africa.
- Prevalence of *Toxoplasma gondii* among pregnant women in White Nile State, Sudan.
- Detection and intervention of Schistosomiasis infecting school children in three localities, Kosti, Sudan.

- Survey of Malaria vectors in White Nile State, Sudan. The (Group proposal) submitted to Central Malaria Control program, Ministry of Health, Sudan for fund.

❖ **Joint research:**

I conduct the following research as a partnership with the following institutions:

- Sinnar Malaria Regional Research Centre:
  - Mosquitoes genotyping (established).
  - Detection of *Plasmodium falciparum* by LAMP Molecular test (established).
  - Manual and homogenizer method for preparation of Mosquitoes derived stabilates of *P. falciparum* equivalence testing using in vivo (mice) models (under study).
- Faculty of Veterinary Medicine, University of Khartoum:
  - The geographical distribution and taxonomy of ticks in Sudan (established).
  - The victorial capacities of *Theileria lestoquardi* vector ticks (established).

❖ **Student's supervision:** I designed and supervised more than 20 different topics of B.Sc. student's dissertations in Parasitology and Medical Entomology, Faculty of Medical Laboratories. University of Elimam Elmahadi. The following are some of the topics:

- Detection and infectivity of *Schistosoma haematobium* among school children in Elhagaleeg village, White Nile State.
- Sensitivity and Specificity of Immunochromatography Test for Detection of Malaria in Pregnancy in Kosti Area.
- Sensitivity and Specificity of Trichrome stain for Detection of intestinal protozoa.
- Prevalence of *Plasmodium falciparum* infecting adults in three localities in Kosti area, Sudan.
- Malaria parasite sequestration in placenta and detection of the parasite in infants.
- The staining efficacy of Trichrome for staining insect salivary glands.

- The preservation capability of insect by natural honey.
- Detection of Plasmodium falciparum by different malaria rapid diagnostic tests.
- Detection of *Schistosoma mansoni* by three different diagnostic techniques.
- The band form and gel documentation of *Schistosoma haematobium* DNA extracted from the preserved eggs.

❖ **Field professions:**

During my appointment as team leader at The Kosti Epizootics Office, White Nile State, Sudan: during the year 1990-1999, the following experiences have been gained:

✓ Rural Health Contributions:

- Hygiene education and disease control measures.
- Malaria vectors control by Neem plant extractions.
- Treatment of malaria by bee's pitting.
- Malaria draw back programme.
- First aid courses for traditional Midwife, house hold and mothers.
- Environmental Health care.
- Extension and enlighten of community for girl circumcision.

✓ Rural Education Contributions:

- Rehabilitation of schools and teaching environment of most of White Nile villages.
- Contribution in illiteracy eradication.
- Implantation of shelter belts.

✓ House hold income:

- Incensement of household's income by training of skills, family production societies and rural investment.
- Cooperation societies at agricultural sectors (plant and animal).

**Publications:**

1. **Ahmed H. El Imam** and Mohammed A. Nour, 2017. Microbiology Quotable Quotes. Lambert Academic Publishing (LAP), Germany, pp., 205.
2. **El Imam**, A.H., Hassan, S.M., Gameel, A.A., El Hussein, A.M., Taha, K.M., Marinda C. Oosthuizen, 2016. Molecular Identification of different *Theileria* and *Babesia* species infecting sheep in Sudan. Annals of parasitology, 62: 47-54.
3. **El Imam**, A.H., Gameel, A.A., Hassan, S.M., El Hussein, A.M., Taha, K.M., 2016. The pulmonary involvement in *Theileria lestoquardi* naturally infected sheep. Annals of parasitology, 62: 39-45.
4. **El Imam**, A.H., Gameel, A.A., Hassan, S.M., El Hussein, A.M., Taha, K.M., 2016. Macroscopic and microscopic findings in *Theileria lestoquardi* naturally infecting Sudanese sheep. Jordan Journal of Biological Sciences, 9: 29-33.
5. **El Imam**, A.H., Taha, K.M., 2015. Malignant Ovine Theileriosis (*Theileria lestoquardi*): A Review. Jordan Journal of Biological Sciences 8, 165-174.
6. **El Imam**, A.H., 2015. Pathogenesis and Susceptibility of Sheep to *Theileria lestoquardi*. LAP Lambert Academic Publishing, Germany, pp. 136.
7. **El Imam**, A.H., Hassan, S.M., Gameel, A.A., El Hussein, A.M., Taha, K.M., Salih, D.A., 2015. Variation in susceptibility of three Sudanese sheep ecotypes to natural infection with *Theileria lestoquardi*. Small Ruminant Research 124, 105-111.
8. Salih DA, Ali AM, Liu Z, Bakheit MA, Taha KM, **El Imam A.H.**, Kullmann B, El Hussein AM, Ahmed JS, Seitzer U., 2012. Development of a loop-mediated isothermal amplification method for detection of *Theileria lestoquardi*. Parasitology Research, 110 (2): 533–538.
9. **El Imam A. H.**, 2003. Ecological study on ticks (Acari: Ixodidae) infesting cattle in Kosti province, Sudan. The Sudan Journal of Veterinary Science and Animal Husbandry, 42 (1&2): 62-71.