

# KHALID ABDALLAH MOHAMMED ENAN

## PERSONAL PROFILE

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**Mail Address:** Khalid .A.Enan  
Ministry of Science & Technology  
Central Laboratory  
P. O Box 102  
Khartoum- Sudan

**Tel:** +249 912651103 (mob.)  
+249 157994569 (home)

**E-mail:** khalid.enan@gmail.com

**Nationality:** Sudanese.

**Date of birth:** 24<sup>6</sup> October, 1980

I am a qualified graduate candidate in Virology. I am an ambitious young scientist who is keen to learn and to make my contribution to science. I am interested in biomedical research e.g. Virology, and Molecular Biology. I want to learn new methods and technique in science. I have well developed IT skills using different computer packages e.g. Excel and also good presentation skills.

I am a hard worker and can work on my own as well as part of a team. I am able to meet deadlines. I am a trustworthy person and can take responsibilities

## EDUCATION

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**2000-2004** **Veterinary Medicine, University of Khartoum, Sudan.**

**Prescribed Courses:** BAS Zoology, BAS Range & Ecology, BAS Physics, BAS General Chemistry, PRO Animal Management & Husbandry, PRO Genetics, BAS Mathematics, BIO Biochemistry, PHS General Physiology, ANA Gross Anatomy, ANA Histology, PRO Applied Animal Breeding , ANA Embryology, PHS Special Physiology, BIO Applied Biochemistry, PTH General Pathology, PAR Helminthology, MIB General Microbiology, MIB Immunology, PRO Principals of Animal Nutrition, PTH Special Pathology, PTH Morbid Anatomy, PAR Protozoology & Entomology, MIB Bacteriology & Mycology, MIB Virology, PRO Applied Animal Nutrition,

PMH Epidemiology & Introductory Preventive Medicine, MED Medicine & Therapeutic, MED Pharmacology, PTH Fish Diseases, PMH Poultry Diseases, BAS Basic Statistics, PMH Infectious & Zoonotic Diseases, MED Medicine & Therapeutics, SRG General Surgery & Anaesthesiology, REP Reproduction & Gynaecology, MED Laboratory Diagnosis, SRG Special Surgery, REP Obstetrics & Infertility Problems, PRO Animal Production, MED Wildlife Diseases, PMH Veterinary Extension and Rural Development, REP Reproductive Biotechnologies, PMH Food Hygiene & Safety, MED Toxicology & Forensic Medicine, PRO Livestock Economics, English, Principals of Computer Science.

**2006-2008 M.Sc. in Medical Biotechnology. Sudan Academy of Sciences**

**2010-2013 PhD. in Medical Virology. Sudan Academy of Sciences**

#### **WORK EXPERIENCE**

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- 2005 National Central Lab, Khartoum, Sudan**  
**Job Description:** Researcher, Diagnosis of Viral diseases using different serological testes, Cell Culture, and molecular diagnostic tools such as PCR, Real-time PCR. Cooperate with the Master and PhD students in their research. Participate in the practical sessions of Virology training courses in the lab. Working in the Virology Unit and participating in the research projects running in the Lab. Mastering different biochemical techniques including: Radio-Immunoassays (RIA), ELISA, Immunofluorescence Assays (IFAs), and Electrophoresis.
- 2004-2005 Vet Service Organisation, Khartoum, Sudan**  
**Job Description:** Extension Manager participated in the disease control campaigns. Treatment and Vaccination.
- 2004 University of Khartoum, Khartoum, Sudan**  
**Job Description:** Teaching and Research assistant (Part-time) in the Faculty of Veterinary Medicine. Participated in the demonstrations and experiments in the laboratories.
- 2009-2013 University of El Nellik, Khartoum, Sudan**  
**Job Description:** Teaching and Research assistant (Part-time) in the Faculty of Medical Laboratory Science. Participated in the demonstrations and experiments in the laboratories.
- 2010-2013 Sudan International University.**  
**Job Description:** Teaching and Research assistant (Part-time) in the Faculty of Medical Laboratory Science. Participated in the

- demonstrations and experiments in the laboratories.
- 2011-2013 **Sudan University :**  
**Job Description:** Teaching and Research assistant (Part-time) in the Faculty of Medical Laboratory Science. Participated in the demonstrations and experiments in the Virology and Molecular biology laboratories.
- 2011-2013 **Elwatanyia University:**  
**Description:** Teaching and Research assistant (Part-time) in the Faculty of Medical Laboratory Science. Participated in in the Virology and Immunology laboratories.
- 2012-2013 **Garab Elneel College:**  
**Description:** Teaching and Research assistant (Part-time) in the Faculty of Medical Laboratory Science. Participated in in the Virology and Molecular biology laboratories.

## TRAINING

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- 2006 **Institute of Endemic Diseases and Faculty of Mathematical Sciences University of Khartoum , Sudan:**  
 Attended the Khartoum Winter School of Bioinformatics and Statistical Genetics from 5-17 January 2006.
- 2007 **Indian Veterinary Research Institute, Izatnagar , Bareilly – 243 122 (UP)- India:**  
 Completed training program in "Molecular Diagnosis of Viral Diseases" at the Division of Veterinary Biotechnology. this training bestowed with the technical know – how of Cell Culture, Recombinant DNA technology and RNA extraction from Virus and mammalian cells including the use of FACS, PCR and Real-Time PCR.
- 2011 **Department of Virology-Institute of Tropical Medicine, Nagasaki University.** Completed training program in "Molecular Diagnosis and Serology.... from 11 November till 11 February.
- 2013 **Technical Workshop on Epidemiology at Freie Universität, Berlin, Germany from April 22th to 26th 2013.**
- 2013 **Global Infectious Disease Research Course. 06-11 October 2013 Cape Town, South Africa.**

## PUBLICATIONS

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- 1- Enan1 \*, KA, El-Hussein1, a M, El Eragi2, a, and Elkhider3, I M. Sero-reactivity to human cytomegalovirus in a cohort of Sudanese renal transplant

Patients. Khartoum Medical Journal (2009); 2: 197-199.

- 2- **Khalid A Enan\***, **Hanna Rennert**, **Ali M El-Eragi**, **Abdel Rahim M El Hussein** and **Isam M Elkhidir**. Comparison of Real-time PCR to ELISA for the detection of Human Cytomegalovirus infection in Renal Transplant Patients in the Sudan. *Virology Journal* 2011, **8**:222.
- 3- **Enan K. A.\***, **Intisar K. S**, **Haj M. A**, **Hussien M. O.**, **Taha K. M**, **Elfahal A. M**, **Ali Y. H** and **El Hussein A. M**. Seroprevalence of two important viral diseases in small ruminants in Marawi Province, Northern State, Sudan. *International Journal of Livestock Production* Vol. 4(2), pp. 18-21, February 2013.
- 4- **Khalid M. Taha** & **Diaeldin A. Salih** & **Bukhari M. Ahmed** & **Khalid A. Enan** & **Awadia M. Ali** & **AbdelRahim M. ElHussein**. First confirmed report of outbreak of malignant ovine theileriosis among goats in Sudan. *Parasitol Res.*(2011) DOI 10.1007/s00436-011-2428-y.
- 5- **Emad M.A1.**, **Ali Y.H2**, **Enan, K.A.3**. Epidemiology of Type 1 Diabetes Mellitus Among Children in Sudan: Serological Evidence of Coxsackievirus Infection. *Journal of Science and Technology* 12 (4) December 2011, 64-73.
- 6- **Nahla Kh.M 1**, **Ali Y.H.2**, **Enan, K. A.3**. Studies on congenital infections in infants in Sudan: seroprevalence of cytomegalovirus. *J.Sc.Tech. Journal of Science and Technology* 12 (4) December 2011.82-90.
- 7- **M.O.Hussien**, **K.M.Taha**, **I.A.Ibrahim**, **K.A.Enan**, **A.M.El Hussein**, (2010).A survey of Rift Valley fever virus antibodies in domestic animals in Marawi Province- Sudan. (Restricted information).
- 8- **Mohammed O. Hussien1**, **Abdelghafar M. ElFahal1**, **Khalid A. Enan**, **Khalid M. Taha2**, **Mohammed S. Mohammed** , **Diaeldin A. Salih** ,**Sulieman I. Mohammadain** , **Ahmed A. Saeed** , **AbdelRahim M. El-Hussein**. Seroprevalence of Q fever in Goats in the Sudan. *Vet. World*, 2012, Vol.5 (7):394-397.
- 9- **Mohammed O. Hussien** , **Abdelghafar M. ElFahal** , **Khalid A. Enan** , **Mohammed S. Mohammed** , **Amira M. Ibrahim** , **Khalid M. Taha** , **AbdelRahim M. El-Hussein**. Seroprevalence of Neospora caninum in cattle in Sudan. *Vet. World*, 2012, Vol.5(8): 465-468.
- 10- **Shiraz Gamal1\***, **Khalid Enan**, **Mohammed Hussien**, **Mustafa El tiganil** and **Isam Elkhidir3** .Association between Hepatitis B Virus and

Celiac Disease Patients in Khartoum State, Sudan. Gamal et al.,  
Clin Microbial 2013, 2:2.

- 11- **Mai Adil, Enan, K. A., Eldaief, W., El-tigani, M. and Elkhidir, I. M.** PCR DETECTION OF HUMAN CYTOMEGALOVIRUS IN PLASMA AND URINE SAMPLES FROM RENAL TRANSPLANT PATIENTS. International Journal of Current Research. Vol. 5, Issue, 06, pp.1363-1365, June, 2013
- 12- **Abdelghafar M. Elfahal , Mohammed O. Hussien , Khalid A. Enan , Khalid M. Taha , Diaeldin A. Salih , Rajaa H. Halfawi , Zakia A. Mohammed and Abdelrahim M. El-Hussein.** Investigation of caprine arthritis-encephalitis virus in Sudan using competitive enzyme-linked immunosorbent assay. doi:10.5455/vetworld.2013.558-562.
- 13- **Mawada F. Idris, Khalid M. Enan , Mustafa E. Mustafa, Isam M. Elkhidir and Aymen A. Abdelhaleem.** The Effect of Interferon gamma (IFN- $\gamma$ ) A and T alleles on Susceptibility to Hepatitis B virus infection: A Case Control Study. Al Neelain Medical Journal, Issue, 8, Vol 3: 56-66, 2013.
- 14- **Bukhari M. Ahmeda, Khalid M. Taha, Khalid A. Enan, Abdelghafar M. Elfahal, Abdel Rahim M. El Hussein.** Attenuation of Theileria lestoquardi infected cells and immunization of sheep against malignant ovine theileriosis Bukhari.
- 15- **Abdelghafar M. Elfahal, Amira M. Elhassan, Mohammed O. Hussien, Khalid A. Enan, Azza B. Musa, and Abdelrahim M. El Hussein.** Seroprevalence of *Toxoplasma gondii* in Dairy Cattle with Reproductive Problems in Sudan. ISRN Veterinary Science. Volume 2013 (2013), Article ID 895165, 4 pages.
- 16- **Enan<sup>1,\*</sup>, KA., El-Hussein<sup>1</sup>, M.O.Hussien. and Elkhider, I. M**  
Seroprevalence of herpes simplex virus type 1 and 2, Epstein –Barr Virus, and cytomegalovirus in Renal Transplant patients in Khartoum-Sudan.(under processing.).
- 17- **Khairi S. I, Intisar K. S, Enan K. A, Ishag M. Y, Baraa A. M and Ali Y. H.\***  
Seroprevalence of cytomegalovirus infection among pregnant women at Omdurman Maternity Hospital, Sudan. J. Med. Lab. Diagn. Vol. 4(4),pp.45-49, October 2013.
- 18- **Gandour M.A, Abdelhaleem A.A, Enan K.M , Yasin M. E, Elkhidir I.M.**  
PREVALENCE OF HERPES SIMPLEX VIRUS IN CSF SPECIMENS OF NEONATES WITH ENCEPHALITIS BY USING REAL TIME PCR. Journal of Biomedical and Pharmaceutical Research 2 (6) 2013, 74-77.
- 19- **Hiba Dirar, Mustafa EM Yassin, Khalid A. Enan, Mohammed Nafi, Walid A Eldaif and Isam M Elkhidir.** SERO-PREVALENCE OF HEPATITIS B VIRUS (HBsAg) AND HEPATITIS C VIRUS (Anti-HCV) AMONG HIV-INFECTED IN

SUDAN. Journal of Biomedical and Pharmaceutical Research 2 (6) 2013, 78-81.

20- **Shaza Abd Allah M. Ahmed , Mustafa E M Yassin, , Khalid A. Enan, Khalid Abdalmoniem, Mohammed Nafi and Isam M Elkhidir.** Seroprevalence of Herpes Simplex Virus (HSV-1 and HSV-2) Infections in Sudanese Renal Transplant Recipients. Journal of Biomedical and Pharmaceutical Research 2 (5) 2013, 77-80.

21- **Khalid A Enan1, Takeshi Nabeshima2, Toru Kubo2, Corazon C Buerano3, Abdel Rahim M El Hussein4, Isam M Elkhidir5, Eltahir AG Khalil6 and Kouichi Morita2\*.** Survey of causative agents for acute respiratory infections among patients in Khartoum- State, Sudan, 2010-2011. *Virology Journal* 2013, 10:312.

#### BOOKS

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1- Evaluation of Human Cytomegalovirus (HCMV) Viral Load Using Real-time PCR in Comparison With HCMV ELISA in Renal Transplant Patients in Khartoum State-Sudan .

#### CONFERENCES ATTENDED

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- 1- **Enan1,\* , K. A., El Hussein1, A. M. , El-Eragi2, A. Elkhider3, I. M. and Rennert4 H.** Comparison of Real-time PCR to ELISA for the detection of Human Cytomegalovirus infection in Renal Transplant Patients in the Sudan. **International Conference on Applied Biotechnology (ICAB-2009).** Africa City of Technology.
- 2- **The Second International Conference of Al Zaiem Al Azhary University the Fourth Congress of the Sudanese Nephrology Society 19-21 Feb 2010.**
- 3- **3<sup>rd</sup> African Congress for Scientific Research & Technology in Collaboration with 3<sup>rd</sup> African Congress for women in Science, Technology , Innovation and Entrepreneurship and 1<sup>st</sup> African Congress for Youth in Science, Technology, Innovation and Entrepreneurship.2-4 November 2010 National Research Center of Egypt-Mena House Oberio Cairo- Egypt.**

#### LANGUAGES

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**Arabic:** Excellent  
**English:** Very Good

#### OTHER INTERESTS

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Sports, Music, and Travel.

**REFEREES:**

**Name:** Prof. Eltahir Awad Gassim Khalil  
**Address:** Ministry of Science and Technology –Director of Central Laboratory  
Khartoum , Sudan  
**E- mail:** [eltahirgasim@yahoo.ca](mailto:eltahirgasim@yahoo.ca)  
**Tel:** +249-9-12375740.

**Name:** Dr. Isam Mohammed Elkhider  
Associate Professor in Microbiology  
**Address:** University of Khartoum, Faculty of Medicine  
Department of Microbiology & Parasitology  
P.O Box 321  
Khartoum 1115, Sudan  
**E- mail:** [isamelkhidir@gmail.com](mailto:isamelkhidir@gmail.com)  
**Tel:** +249 -9-12369551.