

CURRICULUM VITAE

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PERSONAL DATA

Abdelwahid Saeed Ali Date of birth: January, 01, 1965 (Appendix 1) Place of birth: Algadeed Althawra-1, Gezira/ Sudan Marital status: [...]

Abdelwahid Saeed Ali

Date of birth: January, 01, 1965 (Appendix 1)

Place of birth: Algadeed Althawra-1, Gezira/ Sudan

Marital status: Married with two children

Religion: Islam

Academic status: Associate Professor (Appendix 2)

Specialization: Virology, Immunology & Molecular biology

Address: Department of Veterinary Preventive Medicine and Public Health, Faculty of Veterinary Medicine, University of Khartoum, Khartoum North, Postal code: 11115, P.O. Box: 321; SUDAN

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EARLY EDUCATION

Algadeed Althawra-1 primary school 1972-1978 1978- 1981 Algadeed Althawra-1 intermediate school 1982- 1985 Kamlin high secondary school

Algadeed Althawra-1 primary school 1972-1978
1978- 1981 Algadeed Althawra-1 intermediate school
1982- 1985 Kamlin high secondary school

EMPLOYMENT

(1) In academic Institutions Institution Job title Period Duke University (USA)
(Appendix 15A&B) Research Associate 2005- 2007 University of Khartoum [...]

(1) In academic Institutions

Institution Job title Period

Duke University (USA)
(Appendix 15A&B) Research Associate 2005- 2007

University of Khartoum (Sudan)
(Appendix 2) Associate Professor 2004- date

University of Khartoum (Sudan)
(Appendix 16) Assistant Professor 2000- 2004

Putra University (Malaysia) Research Assistant 1995- 2000

University of Khartoum (Sudan) Lecturer 1995- 2000

University of Khartoum (Sudan) Teaching Assistant 1991- 1995(Part-time)

(2) In non-academic Institutions

Institution Job title Period

Veterinary Care Company (Khartoum)-Islamic Development Company (Appendix 17)
Veterinarian 1991-1993
Shaikan Insurance Co. (Khartoum) Veterinarian 1993-1995

EXPERIENCES

(1) Teaching A- Institutions: 1. University of Khartoum (Sudan): 2. University of Kassala (Sudan): Faculty of Medicine 3. University of [...]

(1) Teaching

A- Institutions:

1. University of Khartoum (Sudan):
2. University of Kassala (Sudan): Faculty of Medicine
3. University of Gedarif (Sudan): Faculty of Medicine
4. University of Juba (Sudan): Faculty of Medicine
5. Putra University (Malaysia): Faculty of Veterinary Medicine
6. Duke University (USA): Medical Center

B- Courses

Undergraduate Courses

- * Animal Viral diseases
- * Veterinary Virology
- * Molecular biology
- * Arboviral infections
- * Diagnosis and control of infectious diseases
- * Meat hygiene and inspection
- * Veterinary Epidemiology
- * Poultry diseases
- * Veterinary Microbiology
- * Animal health
- * Medical Virology (General, Systemic and Special)
- * Medical Immunology (General and immunopathology)
- * Viral Zoonoses

Postgraduate Courses

- * Veterinary Virology (General, Systemic and Special)
- * Immunology (General, Immunopathology & Autoimmune diseases)
- * Animal Diseases in the Tropics
- * Fundamentals of vaccinology
- * Research Methodology
- * Dairy herd health

(2) Postgraduate students supervision

Supervised the research projects of 18 MSc students at University of Khartoum. 12 students awarded the degree and 6 currently conducting their research work before completion. In addition to, two PhD students currently registered and pursuing their research.

I. Awarded M.Sc

Name of student and Thesis title

- 1- Sana Awad Abdel-Aziz Study on Newcastle Disease in Village Chicken in Sudan
- 2- Sara Abdeldaim Sirelkhatim Effects of the Virus Strain, Age of Chicken and Route of Administration on Newcastle disease Vaccination in Maternally Immune Chicks
- 3- Sahar Mohammed Osman Immunity and Performance of Infectious Bursal Disease (IBD) Vaccinated Chickens
- 4- Ihsan Hussein Ahmed Ali Prevalence of African horse sickness virus serotypes in Southern Darfur and Khartoum States (Sudan)
- 5- Nuseiba Ahmed Osman Peste des Petitis Ruminants (PPR) in Sudan
- 6- Sumyia Khogali Mohammed The Serologic and Antigenic Relationship among some Avian Poxviruses
- 7- Mamdouh Sabbar Ali Rinder pest in Southern Sudan (Wihdah State): Virological, serological and molecular evidence
- 8- Inas Mamoon Elraheed Cross infectivity and immunogenicity between the nephritic and respiratory IBV strains

9- Elshafie Ibrahim Elshafie Epidemiological investigations of Sheeppox in Kassala State, Sudan

10- Murtada Abu Baker Evaluation of IBDV vaccines currently employed in Sudan

11- Hanadi Mohammed Kheir Combined vaccination of ND and IBD in broiler chickens

12- Abdelrahim Sulieman Abdalla Epidemiological analysis and disease burden for small ruminants in Western Sudan

II. Currently registered for MSc

Name of student and Proposed thesis title

2- Siham Tagelsir Karramella Application of Rt-PCR for detection of FMDV

3- Hassan Eltom Abdalla Diagnosis of RVFV in Sinnar state during 2006-2007 outbreaks, Sudan

4- Wifag Abdalla Epidemiological investigations of Sheeppox in White Nile State, Sudan

5- Shaza Eltayeb Diagnosis of Avian influenza virus (H5N1) in Khartoum, Sudan

6- Manar Mahmood Abdel-Elkheir Identification of O157:H7 strain of E.coli.

III. Currently Registered for PhD

Name of student Proposed thesis title

1- Hanan Yousif Mohammed Use of Geographical Information System (GIS) and remote Sensing for perdition of foot-and-mouth disease occurrence in Sudan

2- El-Sayed Rias Abdalla Immunogenic potential and molecular studies of Abscess disease vaccines

Postgraduate students Examinations:

Served as an assessor for M.V.Sc theses and examiner for the following students at University of Khartoum:

Name of student and Thesis title

1- Wegdan Hassan Ali Immunogenicity, Protective Efficacy and Safety of Newcastle Disease Thermostable Vaccine (I2) under Sudan Conditions

2- Um Kalthum Mohammed Elamin Field and laboratory studies on the local fowlpox vaccine (Beaudette strain)

- 3- Khalid Abdul-rahman Physicochemical and biological properties of fowl poxvirus, pigeon poxvirus, canary poxvirus and dove poxvirus isolated in Khartoum
- 4- Wisal Mohammed Elamin Mustafa Conventional and molecular epidemiology of *Staphylococcus aureus* originated from human and animals
- 5- Neima Osman Abdalla Mohammed Seroprevalence and molecular identification of foot-and-mouth disease in Khartoum State, Sudan
- 6- Amel Abdalla Mohammed Ali Comparison between molecular and conventional diagnosis of bovine Brucellosis
- 7- Ahmed Zeinalbideen The use of PCR in diagnosis of sheeppox and goatpox outbreaks in Sudan
- 8- Awad Alkareem Ali Mohammed Detection of cytomegalovirus antibody and DNA in renal transplant recipients and hemodialysis patients in Khartoum

Field experiences

- 1) Working as field Veterinarian for number of poultry and dairy farms in Khartoum State (Sudan) – VETERINARY CARE COMPANY [...]
- 1) Working as field Veterinarian for number of poultry and dairy farms in Khartoum State (Sudan) – VETERINARY CARE COMPANY – Islamic Development Company 1991-1993 (Appendix17).
- 2) Contributed to the establishment of the rules and regulations for the insurance of Livestock in Sudan for first time, SHAKAN INSURANCE AND RE-INSURANCE COMPANY 1993 -1995.
- 4) Technical consultant for WARIF AGRICULTURAL COMPANY (Khartoum) for poultry vaccines application and immunity follow up 2003- 2004
- 5) Technical consultant for MEECO POULTRY COMPANY (Khartoum) particularly for vaccination programs 2004- 2005
- 6) Technical consultant for SALSABEEL COMPANY for poultry manufacture. The mandate is to look after the health system of the hatchery and one– day old chicks (Khartoum) 2004- 2005.
- (5) Administrative responsibilities
 - A) In Faculty of Veterinary Medicine, University of the Khartoum
 - 1) Member of the departmental board

- 2) Secretary of the departmental board
- 3) Head of the departmental board (Appendix 18).
- 4) Member of the faculty board
- 5) Secretary of the faculty board (Appendix 19)
- 6) Member of the faculty research board
- 7) Member of the university convocation committee
- 9) Member of the examination committee
- 10) Member of the academic reform committee
- 11) Member of the first year students' interview committee
- 12) Member of the committee for foundation of the female students' rest house.
- 13) Supervisor for the students "Village Concept Association"
- 14) Supervisor for the students "Nomads Life Development"
- 15) Supervised students academic tours inside Sudan (Nyala, El-Obeid, Kassala, Gedarif, Kosti, Wad Medani)
- 16) Supervised students academic tours outside Sudan (Irag and Jordan, 1994; Ethiopia, 2004; Uganda, 2005)
- 17) Member of the faculty book committee
- 18) As part of the department teaching job, supervised students visits to the institutions of preventive medicine importance such as vaccine production laboratories, abattoirs, dairy production centres...etc
- 19) Responsible for the final year students training in the meat inspection and hygiene for more than 10 years in several abattoirs in Khartoum (Omdurman, Kaddaro, Al-huda, Ghanawa and Al-Sabalooga) abattoirs).

B) University of Khartoum

- 1) Member of the University senate
- 2) Member of the departmental board, faculty of public and environmental health

3) Member of the Research board, faculty of public and environmental health

4) Representative of the faculty in the Teaching staff affairs committee

C) Outside the University of Khartoum

1) Member of the national committee established by the ministry of Animal Resources (Sudan) to prepare research projects proposals aiming at control of FMD, RVF and PPR in Sudan 2001.

2) Member of the national committee established by the ministry of Animal Resources (Sudan) to report to OIE on the situation of FMD & BSE in Sudan 2002.

3) Representative of U. Of K, Faculty of Veterinary Medicines in the Sudanese Standards and Metrology Organization (SSMO) committees. (Head of abattoir committee and Meat and live animals transport committee. Member of the Commercial Frozen/ Cooled meat containers committee) (Appendix 20).

4) Served as assessor for scientific articles published in the Sudan Journal of Veterinary Science and Animal Husbandry & Sudan Journal of Veterinary Research, and for the University of Khartoum Journal of Agricultural Sciences.

5) Appointed as a reviewer for scientific articles submitted for publication in the Preventive Veterinary Medicine (An International Journal on Research and Development in Veterinary Epidemiology, Animal Disease Prevention and Control, and Animal Health Economics) published by ELSEVIER.

6) Representatives of U. Of K, Faculty of Veterinary Medicine in the 11th Euro- Arab Veterinary Congress committees December 2007.

7) Representatives of U. Of K, Faculty of Veterinary Medicine in the committee established by the Under-Secretary of Ministry of Animal Resources to design control programs against some infectious diseases in Sudan including BSE, RVF, brucellosis and FMD December 2007.

8) Member of the national committee established by the Sudan Veterinary Council and Sudanese Standards and Metrology Organization (SSMO) for Rift Valley Fever in Sudan: The mandate of the committee is to establish diagnostic and control methods and facilities.

HIGHER EDUCATION AND QUALIFICATION

Molecular biology (Appendix 3) Dec. 2005- June 2007 Duke University (USA) Post-doc.
Animal Virology (Appendix 4) Feb. 2000 Putra University [...]

Molecular biology (Appendix 3) Dec. 2005- June 2007 Duke University (USA) Post-doc.

Animal Virology (Appendix 4) Feb. 2000 Putra University (Malaysia) Ph.D

Immunology (Appendix 5) March 1995 University of Khartoum (Sudan) M.V.Sc

Veterinary Medicine (Appendix 6) Feb. 1991 University of Khartoum (Sudan) B.V.SC

GRADES AND CUMMULATIVE AVERAGE OF DEGREES AWARDED

INVITED TALKS (Major speaker)

(A) Professional sessions: Organizer and Title of talk 1 Sudan University of Science and Technology The effect of Rift Valley [...]

(A) Professional sessions:

Organizer and Title of talk

1 Sudan University of Science and Technology The effect of Rift Valley Fever on the international animal trade October 2000

2 Epidemiology Department, Ministry of Animal Resources (Sudan) Control of Viral Zoonoses March 2001

3 Kassala University Overview of Arboviral Zoonoses June 2001

4 Sudanese Pharmaceutical Society Epidemiology and immunization programs against Rabies July 2001

5 Ministry of Agriculture, Animal health department (Damascus, Syria) Herpesviral infections: Molecular revisits September 2002

6 Ministry of Agriculture, Khartoum State (Sudan) Disinfectants in Veterinary Practice: Virucidal activity October 2003

7 Jihad Iran Agricultural Organization in Sudan Milk safety and hygiene March 2004

8 Sudan University of Science and Technology, Faculty of Agricultural Studies An overview of Avian Influenza March 2004

9 East African Pharmaceuticals Company, Addis Ababa (Ethiopia) Major livestock Health problems in Sudan July 2004

10 Makerere University (Kampala, Uganda) Veterinary Education and Profession in Sudan July 2005

11 Faculty of Veterinary Medicine, U. of K. Is Rift Valley Fever hemorrhagic disease? Nov. 2007

(B) Public Talks:

Participated as major speaker in the following public talks:

1. Historical revisit and current pandemic of Avian Influenza: Public lecture organized by the Sudan Veterinary Association in October 2005.
2. An emerging viral zoonotic infections (SARS, Mad Cow disease, RVF..etc): TV program organized by Sudan TV (Human Health and Welfare program), 2 weeks, in June 2004.
3. Rift valley fever (history, virology, pathology and epidemiology): Radio program organized by Sudan Radio, major channel (Radio Conference program), 2 weeks, in November 2007.
4. When and How RVF disease become hemorrhagic: Public lecture organized by GIAD industrial company in December 2007.
5. Published two reports highlighting the basic science of Rift Valley Fever and other hemorrhagic diseases in Akher Lahza newspaper in November 2007.

RESEARCH PROJECT LEADERSHIP

Worked as the project leader for a research project entitled: “Small Ruminant Health and Market Opportunities for the Poor in the NENA Region“ from Sept. 2003 through Sept. 2005. The project was completely funded by the International Fund for Agricultural Development (IFAD) (Rome, Italy). The goal of the project is to improve the livelihoods of poor farmers in the NENA region through research targeted at improving small ruminant health resulting in increased productivity and enhanced access to local, national and regional livestock markets. Four M.Sc students, registered at U. of K., All of them were completed their research work under the sponsorship and in the framework of this project.

LIST OF PUBLICATIONS

A) GENERAL RESEARCH (VIROLOGY, IMMUNOLOGY AND MOLECULAR BIOLOGY) I. Contribution to Journals (Listed on chronological basis) 1) Ali, A.S., Mukhtar, [...]

A) GENERAL RESEARCH (VIROLOGY, IMMUNOLOGY AND MOLECULAR BIOLOGY)

I. Contribution to Journals

(Listed on chronological basis)

- 1) Ali, A.S., Mukhtar, M.M. and Mohammed, M.E.H. (1997). Proliferative responses by chicken lymphocytes following vaccinations with Newcastle disease, infectious bursal disease and fowlpox virus antigens. *Jurnal Veterinar Malaysia* 9 (2): 51-54.
- 2) Ali, A.S., Mohd-Azmi, M.L. and Aini, I. (1998). Immune responses to a non-pathogenic pseudorabies virus (mA1p) in mice. *Jurnal Veterinar Malaysia* 10(2): 55-62.
- 3) Mohd-Azmi, M.L., Ali, A.S., Aini, I., Sheikh-Omar, A.R. and Bahaman, A.R. (1999). The immunomodulatory effects of algamulin adjuvant on protection and antibody response to pseudorabies virus. *Jurnal Veterinar Malaysia* 11(2): 93-97.
- 4) Abdalla, M.O., Mohammed, M.E.H., Ali, A.S., Mukhtar, M.M. and Mohd-Azmi, M.L. (1999). Immunostimulatory effects of Levamisole and egg white powder on humoral and cellular immunity to Newcastle disease vaccination. *Malaysian Applied Biology* 28 (1 & 2): 73-77.
- 5) Mohd-Azmi, M.L., Ali, A.S., Musa, N. and Aini, I. (1999). Polymerase chain reaction for detection of pseudorabies virus DNA in infected mouse tissues. *Malaysian Applied Biology* 28 (1 & 2): 85-91.
- 6) Mohd-Azmi, M.L. and Ali, A.S. (2000). Enhancement and suppression of immune responses to equine herpesvirus type-1 in mice depleted of CD4⁺ and CD8⁺ T-cells. *Malaysian Applied Biology* 29 (1 & 2): 111-119.
- 7) Mohd-Azmi, M.L., Ali, A.S. and Kheng, W.K. (2000). DNA fingerprinting of Red jungle fowl, village chicken and broilers. *Asian Australasian Journal of Animal Sciences* 13 (8): 1040-1043.
- 8) Mohd-Azmi, M.L. and Ali, A.S. (2000). Advances in the pathogenicity and immunology of equine herpesvirus type-1. *Jurnal Veterinar Malaysia* 12: 1-13.
- 9) Ali, A.S. and Mukhtar, M.M. (2000). The stimulatory effect of Newcastle disease virus to the chicken lymphocytes: an in vitro cell-mediated immunity correlate. *Sudan Journal of Veterinary Science and Animal Husbandry* 39 (1 & 2): 79-86.
- 10) Ali, A.S. and Mukhtar, M.M. (2000). Measurement of cell-mediated immunity to infectious bursal disease virus and fowlpox virus. *Sudan Journal of Veterinary Science and Animal Husbandry* 39(1 & 2): 87-96.

- 11) Ali, A.S., Mohd-Azmi, M.L., Aini, I., Sheikh-Omar, A.R. and Bahaman, A.R. (2001). Immunosuppressive effects of Cyclophosphamide and Corticosteroids on virus growth and antibody response to a non-pathogenic strain of pseudorabies virus. *Jurnal Veterinar Malaysia* 13 (1 & 2): 36-41.
- 12) Mohd-Azmi, M.L., Ali, A.S. Shobna, P. and Sukardi, S. (2001). Contamination of commercial bovine sera, cell culture and vaccines by bovine viral diarrhoea virus (BVDV) as detected by reverse transcription-polymerase chain reaction (RT-PCR). *Jurnal Veterinar Malaysia* 13 (1 & 2): 42-47.
- 13) Mohd-Azmi, M.L., Hoo, K.N., Ali, A.S., Salim, N. and Too, H.L. (2001). Sero-prevalence of Aujeszky's disease in third division (Sibu) of Sarawak. *Jurnal Veterinar Malaysia* 13 (1 & 2): 19-25.
- 14) Ali, A.S. and Mohd-Azmi, M.L. (2002). Immunostaining of pseudorabies virus proteins with homologous and heterologous sera. *Journal of Union of Arab Biologist (Cairo)*, 18 (A): 319-325.
- 15) Zeenathul N. A., Mohd-Azmi, M. L., Ali, A. S, Aini. I., Sheik-Omar, A. R, Abdul-Rahim, A. M., Bahaman, A. R. and Kamarudin, A. I. (2002). Genomic variations among wildtype and mutant strains of pseudorabies virus. *Revista Argentina de Microbiologia* 34(1): 7-14.
- 16) Sana, A.A., Khalfalla, A.I., and Ali, A.S. (2003). Newcastle disease in village chickens in the Sudan: Prevalence of antibodies against the disease *Bulletin of Animal Health and Production in Africa* 51: 117-119.
- 17) Ali, A. S., Mohd-Azmi, M.L. and El Jalii, I. M. (2003). Different immunogenic peptides of pseudorabies virus detected by sera prepared in different animal species. *Journal of Animal and Veterinary Advances* 2(10): 572- 575.
- 18) Ali, A. S. Abdalla, M. O. and Mohammed, M. E. H. (2004). Interaction between Newcastle disease and infectious bursal disease vaccines commonly used in Sudan. *International Journal of Poultry Science* 3(4): 300-304.
- 19) Sahar, M. O., Ali, A. S. and Mahasin, E. (2004). Residual pathogenic effects of infectious bursal disease vaccines containing intermediate and hot strains of the virus in broiler chickens. *International Journal of Poultry Science* 3(6): 415-418.
- 20) Tabidi, M. H., Makkawi, A. Mahasin, E. and Ali, A. S. (2004). Comparative evaluation of haemagglutination inhibition test and enzyme-linked immuosorbent assay for detection of antibodies against Newcastle disease vaccine in broiler chicks. *International Journal of Poultry Sciences* 3(10): 668-670.

21) Tabidi, M. H., Makkawi, A. Mahasin, E. and Ali, A. S. (2004). The serological responses in chicks vaccinated with combined or single infectious bursal disease and Newcastle disease vaccines. *Journal of Animal and Veterinary Advances* 3(1): 9-12.

22) Sana, A.A., Khalafalla, A.I., Ali, A.S. and El-Hassan. S.M. (2004). Newcastle disease in village chickens in Sudan: Survey of the disease incidence and isolation of the causative virus. *Journal of Animal and Veterinary Advances* 3(1): 32-35.

23) El Jalii, I. M., Bahaman, A. R. and Ali, A. S. (2004). Polymerase Chain Reaction for Diagnosis of Human Leptospirosis. *Journal of Animal and Veterinary Advances* 3(4): 202-204.

MEMBERSHIP

1) Society of Free Radical Biology and Medicine (FRBM), USA (Appendix 29). 2) The Malaysian Society for Microbiology 3) Arab [...]

1) Society of Free Radical Biology and Medicine (FRBM), USA (Appendix 29).

2) The Malaysian Society for Microbiology

3) Arab Biotech. and Genetic Engineering Association (ABGE)

4) Union of Arab Biologist

5) Sudan Veterinary Council (Appendix 30).

6) The Sudanese Veterinary Association

OTHER TRAININGS

1) Molecular genetics, Genome Mutation Detection, organized by the Human genome Organization (HUGO), Santorini, Greece, May-June 2006 (Appendix 10). 2) [...]

1) Molecular genetics, Genome Mutation Detection, organized by the Human genome Organization (HUGO), Santorini, Greece, May-June 2006 (Appendix 10).

2) Immunology, Immunocyte activation: In vitro Protocols, organized by the International Center of Genetic Engineering and Biotechnology (ICGEB), New Delhi, India November-December 2003 (Appendix 11).

3) Molecular biology, RNA function and structure, organized by the International Center of Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy April 2003 (Appendix 12).

- 4) Molecular biology I, Genome components and basic techniques, organized by the Faculty of Science, National University of Malaysia (UKM), Malaysia May 1996
- 5) Molecular biology II, Gene expression and construction of recombinants, organized by the Faculty of Science, National University of Malaysia (UKM), Malaysia June 1996
- 6) Teaching methods and syllabus design, Includes Educational technologies, educational psychology and use of educational instruments. Organized by the Academic Development Centre, Faculty of Education, University of Khartoum June, 15- July 15, 1993 (Appendix 13).
- 7) Computer Science, Basic operations, Word Processing (MS Word, WordPerfect), Worksheet (MS Excel), Presentation (MS PowerPoint). Organized by Development Studies and Research Centre, Faculty of Economic and Social studies, University of Khartoum April 10- May 25, 1993 (Appendix 14).
- 8) Poultry Production and Health: Management, Diagnosis of infectious diseases, Parent stocks, hatchery...etc. The African Poultry Company (previously the Kuwaiti poultry company), Khartoum, Sudan 1991 (45 days).

Credits Degree

B.V.SC: Scored merits in 7 out of 15 subjects (Microbiology, pathology, Pharmacology, Animal Nutrition, Animal production, Preventive Medicine and Veterinary [...])

B.V.SC: Scored merits in 7 out of 15 subjects (Microbiology, pathology, Pharmacology, Animal Nutrition, Animal production, Preventive Medicine and Veterinary Public Health, Medicine Therapeutics and Toxicology). (Appendix 7)

M.V.Sc: Scored Excellent in one and Distinction in two subjects out of three major courses studied. The top among 22 students attended the courses of Master of Tropical animal Health (MTAH) (Appendix 8)

Ph.D: Scored 3.95 out 4.00 as cumulative average. The best thesis submitted to the graduate school of University Putra in Malaysia in the academic year 1999/2000 (Appendix 9).

SCHOLARSHIPS AND AWARDS

(A) Scholarships (1) Duke University Medical Center (DUMC) fellowship to pursue a research project in the field of molecular sepsis: [...]

(A) Scholarships

(1) Duke University Medical Center (DUMC) fellowship to pursue a research project in the field of molecular sepsis: the research topic was dealing with Molecular factors regulating mitochondrial biogenesis during sepsis. Nov. 2006- June 2007 (Appendix 21).

(2) The Development Islamic Bank (IDB) (Jeddah, KSA) Merit Scholarship for the academic year 2005-06 to undertake Post-doctoral Research in the field of Molecular biology at Duke University (USA), Nov. 2005 Nov. 2006 (Appendix22).

(3) Malaysian Technical Co-operation Programme (MTCP) Scholarship for the best Ph.D. research proposal 1996-2000 (Appendix 23).

(4) Sudan government, ministry of higher education, scholarship to study Ph.D. at Putra University (Malaysia) 1995-1999.

(5) Sudan government, ministry of higher education, scholarship to study M.V.Sc at University of Khartoum (Sudan) 1992-1995.

(B) Awards

(1) Awarded the travel award to participate in the 13th Conference of the Society of Free Radical biology and Medicine (SFRBM) as a testimony for the best Abstract submitted to participate in the 13th SFRBM meeting and conference in Denver, Colorado, USA, November 2006 (Appendix 24). Also entitled for free registration to the 14th or 15th annual meetings of the SFRBM to be held in Washington DC, Nov. 2007 and Indianapolis, Nov. 2008 respectively (Appendix 25).

(2) Sponsored by the International Centre of Genetic Engineering and Biotechnology (ICGEB) to attend the course (Immunocyte Activation: In Vitro Protocols) in New Delhi, India November 2003 (Appendix 11).

(3) Sponsored by the International Centre of Genetic Engineering and Biotechnology (ICGEB) to attend the course (RNA Structure and Function) in Trieste, Italy April 2003 (Appendix 12).

(4) Awarded the prize of the Research and Development Department, Putra University (Malaysia) for the Vaccine developed under the title: "Development of thymidine kinase-deleted vaccine against Aujeszky's disease" May 2000 (Appendix 26).

(5) Awarded the prize of the Seminar of Recent Advances in Animal Health and Production No 23. Jointly organized by the faculty of Veterinary Medicine, Putra University (Malaysia) and the faculty alumni March 2000 for the best research and talk presented (Appendix27)

(6) Awarded the Graduate assistant fellowship, Graduate School, Putra University (Malaysia) 1998-2000 (Appendix 28).

(7) Awarded the research assistant fellowship from the Veterinary Vaccine and Biologics Project (funded by the Ministry of Science and Technology, Malaysia), at Putra University (Malaysia) 1995- 1998.

(8) Awarded the prizes for the top score during undergraduate studentship, from University of Khartoum, in the subjects of Microbiology, Preventive Medicine and Veterinary Public Health, Medicine, Therapeutics and Toxicology and Animal Nutrition.