

CURRICULUM VITAE

General:

Name: *Abdelgadir Ballal Mohamed Ahmed*

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Date of birth: 14 January 1959.

Place of birth: Omdurman.

Social status: Married, with three children.

Citizenship: Sudanese.

Post: Associate Professor

Qualification:

- Faculty of Veterinary Science, University of Khartoum, Sudan, 1983. B.V.Sc.
- Faculty of Veterinary Science, University of Khartoum, Sudan, 1996. M.V.Sc. Virology.
- Faculty of Veterinary Medicine, University of Khartoum, Sudan, 2004. Ph.D. Virology- vaccines production.

Ph.D., Thesis: Epidemiological and vaccine production studies on avian infectious bronchitis in Sudan.

M.V.Sc Thesis: Avian Paramyxovirus type-1 in Pigeons: Serological, Virological and Immunological Studies.

Research interests:

Microbiology-Virology, Vaccines production and immunology. Diagnosis and control of infectious diseases, public and veterinary health.

Society membership:

- 1- Sudan Veterinary Association
- 2- World Poultry Science Association.

Teaching experience:

- 1- Faculty of Science and Technology, Omdurman Islamic University; Sudan.
- 2- Faculty of Veterinary Medicine, University of Khartoum, Sudan.(Post and under graduate students)
- 3- Faculty of Veterinary Medicine, University of Sudan, Sudan.
- 4- Faculty of Veterinary Science, Nyala University, Nyala, Sudan.
- 5- Sudan Academy for Science, Khartoum – Sudan (Post graduate).
- 6- Internal and external examiner for (more than 20) post graduate students (MSc &PhD), University of Khartoum, Sudan University for Science and Technology and Sudan Academy for Science.

- 7- External examiner for undergraduate student, University of Khartoum, Animal Production and Technology College, Sudan University for Science and Technology.
- 8- Training of postgraduate students & Veterinarians on various Laboratory techniques, cell cultures, viral diseases diagnosis, vaccines production and interpretation of laboratory results.

Supervision of Graduate Students:

- 1- I work as a supervisor and co-supervisor for more than 15 (MSc & PhD) students.

Also, I work in unofficial capacity as a laboratory advisor for a number of graduate students in fields of virology, viral diseases, immunology, and serology and vaccine production.

Courses, Meetings and Workshops:

- 1-The closing meeting of the OIE sub-grant to AU-PANVAC for PPR vaccines *17th -18th September 2014, Addis Ababa, Ethiopia.*
- 2- Meeting on “Contribution to the design of a pilot PPR reduction program in Africa” *16th -17th September 2014, Addis Ababa, Ethiopia.*
- 3- The eighth Pan African meeting of directors of veterinary vaccine laboratories, *25th – 27th 2014 Nairobi, Kenya.*
- 4-East African regional training meeting on harmonization of registration of veterinary vaccines, *27th -28th June 2013, Nairobi, Kenya.*
- 5-Lunching meeting of the OIE sub-grant to AU-PANVAC “Strengthen AU-PANVAC capacities to guarantee the quality of

PPR vaccines production in Africa” 25th – 27th February 2013, Dakar, Senegal.

6-The seventh Pan African meeting of directors of national veterinary vaccines laboratories, 16th – 17th October 2012, Gaborone, Botswana.

7-Production and the use of serum and veterinary vaccines in Arabs States- Technical Study, Arab Organization for Agricultural Development, 16th – 26th September 2012, Cairo, Egypt.

8-Registration of veterinary vaccines in East Africa: GALV med/ AU-PANVAC, Regional Technical Training Workshop, 21-23 November 2011, Nairobi, Kenya.

9-The Third International Conference of Biosafety and Biosecurity, 13th -15th September 2011, Amman, Jordan.

10-Sixth Pan African meeting of directors of the national veterinary vaccine laboratories. 3- 5th November 2010, Bamako, Mali.

11-Training course on veterinary vaccines. 19th – 30th November 2007, Debre Zeit, Ethiopia.

12-Training course on quality management system based on ISO17025 for testing and calibration laboratories. 5th – 9th November 2006, CVRL, Sudan.

13-Training course on basic molecular biology. 1st – 6th March 1997, CVRL, Sudan.

Prize:

I awarded the Prize of Excellence in Scientific Research (Production of an Avian infectious bronchitis live virus vaccine in

Sudan), from the Minister of the Ministry of Science and Technology, (July 2004).

Career Summary:

2011-till now Associate Prof. Director of Vaccines Production
Center- VRI, Khartoum- Sudan

2006-2011: Associate Prof. Head Department of Viral vaccine
production compound VRI, Khartoum-Sudan

2004-2006: Assistant Prof. Viral vaccine production compound
VRI, Khartoum-Sudan.

2001-2003: Assistant Prof. Avian Pathology and Diagnosis
Department, VRI, Khartoum-Sudan.

1996-2000: Veterinary Researcher, Avian Pathology and
Diagnosis Department, VRI, Khartoum, Sudan

1994-1996: Graduate students (M.Sc), Faculty of Veterinary
Science, University of Khartoum-Sudan.

1992-1993: Researcher assistant, Avian Pathology and
Diagnosis Department, VRI, Khartoum, Sudan.

1991-1992: Director of Inspection and vaccination center,
Quarantines, Animal Health and Epizootics
control, Khartoum, Sudan.

1985-1991: Veterinary officer, school of assistant veterinarians.
Khartoum-Sudan.

1985-1988: Veterinary Officer, Kordofan province, Sudan.

Activities and posts held:

1985-1988: I joined the Ministry of Agricultural and Natural
Resources in the post of Vet. Officer, where I was

appointed at Kordofan Province. My duties during that period included clinical and animal health work, meat inspection, vaccination campaigns, disease investigations and surveys, and preparation of monthly and annual reports.

1988-1991: I was chosen to join school of assistant veterinarians my duties during that period included teaching and training of assistant veterinarians on clinical and animal health work, vaccination and meat inspection.

1991-1992: I was appointed as the director of the vaccination and inspection Centre, Quarantines and Epizootics Control Department, Ministry of Animal Resources. My work duties at that time were mainly concerned with vaccination, inspection and preparation of animal for exportation.

1992-1996: I was chosen as a researcher assistant, at the Avian pathology and Diagnosis Department of the Veterinary administration (VRI). My duties at that time were mainly concerned with diagnosis of poultry diseases.

1996-2004: I work as a veterinary researcher (1996-2001) and Assistant Prof. (2001-2004) in the Department of Avian Pathology and Diagnosis. My duties included, Diagnosis of poultry diseases by postmortem examination, collection of specimens, isolation and identification of the causative micro-organisms such as (viruses, bacteria, mycoplasma as well as detection of

Parasitic diseases), serological examinations and seromonitoring of immune responses after vaccination, and researches on poultry diseases.

2004-2007:

I was transferred from Avian Dept. to join the Viral Vaccines Production Centre (VRI). I was involved mainly in production of poultry & small animal's vaccines (Newcastle and Fowl Pox, Infectious Bronchitis, & PPR).

According to the epidemiological, virological and immunological results obtained during my Ph.D. study on avian infectious bronchitis (IB) disease. I produce live IB vaccine locally for the first time in Sudan.

In collaboration and with support from VRI administration and colleagues Newcastle vaccine (LaSota strain) has been prepared tested, now was introduced commercially for the first time (in 2005).

Furthermore, work is now in progress to produce Gumboro vaccines locally in the Sudan (A seed bank has been prepared and tested).

Publications:

- 1- Amal, M. Mohamed and A/Gadir Ballal (1992).** Mycoplasma columbium in A respiratory condition of pigeon. The Sudan J. Vet. Res., **11**: 7-13.

- 2- Abdelgadir Ballal and Sobhi A. M. Khair (1994).** Serological studies on flocks showing depressed egg production in the Sudan. *The Sudan J. Vet. Res.*, **13**: 67-71.
- 3- A. Ballal; M.E.H. Mohamed and S. A.M. Khair (1996).** Avian Paramyxovirus type-1 infections of pigeons in Sudan: Characterization of isolates from two outbreaks in 1994. *Sud. J. Vet. Sc. Anim. Husb.*, **35**(1,2): 59-67.
- 4- A. Ballal; M.E.H. Mohamed and S.A.M. Khair (1996).** Observations on the pathogenicity for pigeons and chickens of a pigeon isolate of avian paramyxovirus type-1 from Sudan. *Sud. J. Vet. Sc. Anim. Husb.* **35**(1,2): 68-76.
- 5- A. Ballal; M.E.H. Mohamed and S.A.M. Khair (1996).** The efficacy of LaSota live virus vaccine in control of pigeon paramyxovirus type-1 infection in Sudan. *Sud. J. Vet. Sc. Anim. Husb.* **35**(1,2) 77-81.
- 6- Ballal, A.; Mohamed, M.E.H.; Khair, S.A.M. and Zakia, A. (1995-1996).** Virus distribution and histopathological changes in chickens and pigeons experimentally infected with a pigeon paramyxovirus-1 (PMV-1). *The Sudan J. Vet. Res.*, **14**: 15-21.
- 7- Ballal, A.; Mohamed, M.E.H. and Khair, S.A.M. (1995-1996).** Studies on the protective ability of Komarov live virus vaccine in pigeons, *the Sudan J. Vet. Res.*, **14**: 1-7.
- 8- Ballal, A.; Khair, S.A.M. and Amal, M.M.A. (1997-1998).** Reovirus infections associated with tenosynovitis and

ruptured, gastrocnemius tendons in chickens. The Sudan J. Vet. Res., **15**: 1-6.

9- Tamador, M. Aballa, Khair, S.A.M.; Mohamed, M.E.H. and Ballal, A. (2001). Precipitating antibodies in response to fowl pox vaccine (Beauette Strain) Administered through three different routes and comparison of the sensitivity of AGPT and CIEP. The Sudan J. Vet. Res., **17**: 79-87.

10- UmElhassan, W.Alla.; ElHussein, A.M.; AbdelGadir Ballal and Tamador, M.A.El Hassan. (2001). Detection of fowl pox antibodies in chickens using three serological methods. Sud. J. Vet. Sc. Anim. Husb., Vol. **40**(1,2): 127-131.

11- M .M.A. Amal and A. Ballal (2007). The effect of two vitamins supplements on body weight and egg production of chickens the Sudan J. Vet. Res., **22**:89-91.

12- Abdelwhab, M.B and Ballal, A. (2004). Observation on an outbreak of infectious bursal disease in chickens in Nyala-South Darfur. The Sudan J. Vet. Res. **19**: 81-84.

13- A. Ballal; A.M. Elhussein and A.E. Karar (2005). Serotypes of avian infectious bronchitis virus isolates from field cases in Sudan. Journal of Animal and Veterinary Advances **4**(7): 663-665.

14- A. Ballal; A.M. ElHussein and Igbal, S.A. Abdelrahim (2005). Serological survey of chicken

infectious anemia in commercial chicken flocks in Khartoum State, Sudan. *Journal of Animal and Veterinary* **4**(7) 666-667.

- 15- A. Ballal; A.E Karar and A.M. ElHusseini (2005).** Isolation and characterization of infectious bronchitis virus strain 4/91 from commercial layer chickens in the Sudan. *Journal of Animal and Veterinary Advances* **4**(11): 910-912.
- 16- A. Ballal; A. E Karar and A. M. ElHusseini (2005).** Serosurveillance study on Avian Infectious bronchitis in Sudan *Journal of Animal Veterinary Advances* **4**(11) 908-909.
- 17- A. Ballal; A.M. El Hussein and A.E. Karar (2006).** Evaluation of Three Commercially Live IB Vaccines under Sudan Condition. *Sud. J. Vet. Sc., Anim. Husb.*
- 18- Amal ,M. Mohammed and Ballal, A. (2007).** The effect of two supplements on body weight and egg production of chickens. *The Sudan J. Vet. Res.* 22:89-92.
- 19- Wegdan, H. Ali., Kheir, S.A.M.and Ballal, A. (2007).** Serological survey of type- A avian influenza antibody in chicken sera in Sudan using indirect ELISA. *Research Journal of Animal and Veterinary Sciences*, 2: 12-14.
- 20- Jedah, I. E. Abdellah; Ballal, A. and. Egbal, S. Abdelrahim.(2007).** Avian encephalomyelitis virus in Sudan. *Research Journal of Animal and Veterinary Sciences*,2: 9-11.
- 21- Igbal, S. A. Abdelrahim; Amal, M. M. Ali, Ballal, A and Kheir,S . A. M. (2009).** Detection of avian reovirus antibodies in sera of chicken flocks in the Sudan.

- 22- Osman, O.H. and Ballal, A.(2010).** The immune response of layer hens to live Newcastle disease vaccines used in the Sudan. *The Sudan J. Vet. Res.*25:37-42.
- 23- Jedah, I. E. Abdellah & Ballal, A.(2010)** Molecular characterizations of Avian encephalomyelitis virus isolated in Sudan. *The Sudan J. Vet. Res.*
- 24- Shaza, M, Mutwakil and Ballal, A.(2011)** Studies of infectious Laryngeotracheitis Virus in Sudan. *The Sudan J. Vet. Res.*26:71-76.
- 25- Baraa A. Mohammed, Yahia H. Ali, Abdelgadir Ballal and Salma Elmagboul. (2012)** Assessment of Rabies Situation in Sudan during 2007-2010. *Sud. J.Vet. Sci. Anim. Husb.* 51 (1): 19-31
- 26- Khalda Abdelaziz Khalifa; Egbal Sidahmed Abedrahim; Iman Mohamed ELNasri; Selma Osman Ahmed; Abdelgadir Ballal & Jeddha Ibrahim Elhaj. (2013).** A Retrospective Study (2000-2005), of Poultry Diseases Diagnosed at Department of Avian diseases & Diagnosis; Veterinary Research Institute (VRI) -Khartoum, Sudan. *Journal of American Science*; 9 (7s) 42-45.
- 27- Selma O. A. and Ballal A. (2013).** Seroprevalence of Selected Avian Pathogens of Backyard Poultry in Sinar, Sudan. *Bull.Anim. Hlth. Prod. Afr.*, 61, 209-214.
- 28- Shaza M. Mutwakil; A. Ballal and O. H. Osman.(2014).** Isolation and Identification of Avian Infectious Laryngotracheitis virus in Sudan. *J. of Agricult. and Vet. Sci.*, 15(2):

In Preparation:

- 1- Ballal, A. ElHusein, A.M. and Karar, A.E.** Prevalence of antibodies to 4/91 massachusetts and Dutch IB strains in chicken in Sudan.
- 2- Ballal, A. Karar, A.E. and ElHusein, A.M.** Reversion to virulence of chicken passaged infectious bronchitis vaccine (Ma₅, H₁₂₀ and H_{5a}) H₅₂.
- 3- Ballal, A. Karar, A.E. and ElHusein, A.M.** Economic important of avian infectious bronchitis disease.
- 4- Ballal, A. Karar, A.E. and ElHusein, A.M.** Virulence of Sudanese isolates infectious bronchitis virus field isolates.
- 5- Ballal, A. ElHusein, A.M.; Karar, A.E. and Zakia, A.** Histopathological studies on avian infectious bronchitis.
- 6- Ballal, A. ElHusein, A.M.; Igbal Sayed Ahmed and Selma Osman.** Biological studies on a recent Sudanese isolate of a paramyxovirus from pigeons.
- 7- Ballal, A. and Amal, M.M. Ali.** Pigeon Viral diseases in Sudan.
- 8- Amal, M.M. Ali and Ballal, A.** Pigeon bacterial diseases in Sudan.
- 9- Amal, M.M. Ali and Ballal, A.** Pigeon parasitic diseases in Sudan.