

CURRICULUM VITAE FOR **DR. AMBROSE KIPYEGON NG'ENO** (PHD, UNIVERSITY OF NAIROBI) LECTURER OF  
VETERINARY REPRODUCTION AND OBSTETRICS, UNIVERSITY OF NAIROBI

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## 1. PROFILE

I am a veterinary surgeon and lecturer of Veterinary reproduction and Obstetrics in the Department of Clinical studies, Faculty of Veterinary Medicine, University of Nairobi. I hold a Doctor of Philosophy (PhD) in Clinical studies, Master of Science (MSc) in clinical studies, and Bachelor of Veterinary Medicine degree of the University of Nairobi.

I am a scholar with 13 years teaching and research experience at the University of Nairobi. I have conducted high quality research and published six papers in international peer reviewed journals since my last promotion in 2018, cumulatively I have published 30 articles in peer reviewed journals, conference proceedings and seminars. I have supervised, examined and mentored a number of postgraduate and undergraduate students, evidenced by the following students supervised to completion: 1 PhD. Dr. Wilkister Nabulindo (J87/53322/2018) and 2 MSc. Drs. Emily Kilonzo (A60/87964/2016) WMI and Edward Njenga (J56/9250/2017) Dept of clinical studies. Additionally, I am currently supervising six postgraduate students.

I am registered with the Kenya Veterinary Board (KVB) as a veterinary surgeon and a member of Kenya Veterinary Association (KVA). I have actively given back to the society through leadership and community outreach activities I have undertaken short term training in higher education teaching including pedagogy courses.

Results of this year's appraisal rates my performance as exceeding expectations.

## 2. PERSIONAL DATA

**Name:** Ambrose Kipyegon Ngeno

**Date of birth:** 1<sup>st</sup> March 1981

**County of Birth:** Bomet

**Nationality:** Kenyan

**Marital status:** Married

**Languages:** Kipsigis, English, Kiswahili.

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### **3. ACADEMIC BACKGROUND**

**2013-2017: Doctor of Philosophy (PhD)** in Clinical studies, University of Nairobi.

Thesis: Effects of two endocrine disrupting compounds (17 $\beta$ -estradiol and alkylphenol) in Nairobi river-water on boar testicular descent and seminiferous epithelium.

**2009-2011: Master of Science (MSc)** in Clinical Studies, University of Nairobi.

Thesis: Effects of ripe papaya (*Carica papaya*) seed powder on the seminiferous epithelium of the Boar testis.

**2002-2007: Bachelor of Veterinary Medicine (BVM)**, University of Nairobi,

**1996-2000: Kenya Certificate of Secondary Education (KCSE)**, Mother of Apostles Seminary- Eldoret

**1984-1995: Kenya Certificate of Primary Education (KCPE)**, Kimyoasis Primary School -Nandi

### **4. OTHER TRAININGS ACQUIRED**

**June 2019:** East Africa Community (EAC) Cross border field outbreak simulation exercise in Arusha and Namanga.

**Feb 2016:** Turnitin antiplagiarism seminar

**September 2015:** University of Nairobi, Central Catering Unit. Pedagogy and Andragogy training.

**May 2015:** Trained ISO Internal Quality Auditor.

**October 2014:** KVB, Nairobi: Training of trainers course in harmonised Artificial insemination curriculum and refresher modules

**2012:** FAO livestock emergency guidelines and standards (LEGS) training.

**2011:** International Livestock Institute, Nairobi: Hands-on techniques on In-vitro Embryo Production, Embryo Transfer, Semen processing and Evaluation, genetic resource preservation and imports.

**2011:** University of Nairobi, FVM. Use of Mobile Technologies to Support Disease Surveillance, Education and Knowledge Sharing in the Veterinary Sector.

**2011:** Training centre in communication, Nairobi. Scientific communication and publishing training.

**2010):** World Society for Protection of Animals “Animal disaster management and risk reduction Consultative workshop”.

**2007:** Institute of Primate Research- U.O.N. Veterinary and Comparative Pathology workshop

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## 5. WORK AND RESEARCH EXPERIENCE

During my thirteen years of teaching experience at university level, I have been involved in providing academic leadership, and instruction of undergraduate and postgraduate students.

**March 2018-Present:** Lecturer, University of Nairobi, Faculty of veterinary medicine, Department of Clinical studies.

Responsibilities: Teaching undergraduate and post graduate courses in Theriogenology, student supervision, research and other departmental roles assigned.

**April 2009-March 2018:** Tutorial Fellow, University of Nairobi, Faculty of veterinary medicine, Department of Clinical studies

Responsibilities: Teaching undergraduate and post graduate courses in Theriogenology, student supervision and other departmental roles assigned.

**2019 and 2020:** Post Doc Visiting Research fellow, Lilongwe University of Agriculture and Natural Resources (LUANAR) and University of Ghana: Research in Smallholder dairy Cooperatives in Addressing Sustainable Development Goals in ODA Countries.

**2017: PhD.** Research project on effects of two endocrine disrupting compounds (17 $\beta$ -estradiol and alkylphenol) in Nairobi river-water on boar testicular descent and seminiferous epithelium.

**2011: MSc** Research student: Project title: Effects of ripe papaya (*Carica papaya*) seed powder on the seminiferous epithelium of the Boar testis. Master of Science (MSc) Thesis, University of Nairobi. Responsibilities: Principal Researcher, collecting data, entry, analysis and reporting.

## 6. TRAINING AND EDUCATIONAL GRANTS

**2022:** Veterinary Student Scholar award (VSS). By Morris Animal Foundation (MAF) small research grants

**2022:** Kenya Climate Smart Agriculture Project (KCSAP). Under the training component 4 MSc studies in the fields of animal resilience building against disasters and institutional preparedness were funded. Each of the students received support up to Kshs 4 million. I successfully assisted the students in putting together winning proposals for this funding

**2022:** Co-Principal Investigator (PI) of the Ksh 50M UoN-IAEA International Technical Cooperation Project dubbed “Using Nuclear and Related Technologies for Sustainable Livestock Productivity in Kenya” aims to build capacity on the current state of art science technology and skills

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in reproductive technologies for enhanced breeding, nutrition and reproductive technology extension services in the department of Clinical Studies, Theriogenology Section.

**2019 ongoing:** World University Network- Bristol University- University of Western Australia- University of Nairobi- University of Ghana and Lilongwe University of Agriculture and Natural resources. Research in Smallholder dairy Cooperatives in Addressing Sustainable Development Goals in ODA Countries. Travel grants

## **7. STUDENT SUPERVISION RECORDS**

### **7.1 Thesis Examination**

I have so far also served as an Internal examiner of one PhD and four MSc thesis

1. Kenana Jacqueline Kisianan. Toxicological and Phytochemical evaluation of *Uvariadendron kirkii*. MSc Pharmacology & Toxicology
2. Linet Mwende Kaaria. Evaluation of *Asparagus racemosus* from Nakuru County, Kenya on selected female reproductive parameters. MSc. Comparative Animal Physiology
3. Nancy Mulwa. "Survey of endoparasites and associated lesions in donkeys in selected abattoirs in Kenya". Master of Science in Veterinary Pathology and diagnostics
4. Valence Mutwedu. Investigation of the pharmacological effects of moringa *Oleifera* aqueous extract on oxidative damages and Reproductive performances induced by heat stress in female Rabbit. Doctor of Philosophy, University of Nairobi (Pharmacology and Toxicology)
5. Abdideeq yusuf mohamed. Assessment of bacteriological and Physicochemical quality of drinking water in Hargeisa city, Somaliland. Master of Science in Veterinary Public Health

### **7.2 Completed Graduate Supervision**

1. Wilkister Nabulindo. Spermatogonial stem cell culture, transfection and Intra-testicular transplantation as a preliminary tool towards obtaining genetic modification of Kenyan galla goat. **PhD Clinical Studies**, University of Nairobi.
2. Emily Kilonzi. Governance and management of chemical waste in small holder dairy farms: a case of Kabete sub-county, Kiambu county. **MSc Environmental Governance**, University of Nairobi.
3. Edward Njenga. Repeat breeding in *Bos Taurus* in Makueni, Kakamega and Nandi counties, Kenya. **MSc theriogenology**, University of Nairobi.

### 7.3 Ongoing Graduate Supervision

1. Ascah Jesang. Reducing synchronizing Prostaglandin  $f2\alpha$  dosage in dairy goats for enhanced Artificial insemination uptake in Kenya. MSc. Theriogenology, University of Nairobi.
2. Nickson Langat. Assessment of rift valley fever surveillance and control strategy in Marigat sub county, Baringo county, Kenya. MSc. Environmental Governance, University of Nairobi.
3. Isaiah Oruene Sotonye. Age-related evaluation of peripheral basal hormone and GnRH-stimulated effects on testicular size and histology in the west African dwarf buck. MSc. Theriogenology, University of Nairobi.
4. Patricia Chege. Utilizing county-based artificial insemination services for enhanced cattle breeding. MSc. Theriogenology, University of Nairobi.
5. Alex Kimeli – Thesis Writing Title: Testing effects of timed heat inseminations on sex ratios of calves in dairy cows. University of Nairobi, Department of Clinical Studies
6. Richard Kirui. Semen quality of Holstein Friesian and Ayrshire bulls at Kenya animal genetic resources centre. MSc. Theriogenology, University of Nairobi.

### 7.4 Undergraduate Supervision

1. Patricia Kwaboka (2022). A survey on the competence of final year veterinary medicine students on use of rectal palpation for pregnancy diagnosis in cattle
2. Johanna Kimemia (2022). A survey on the effect of county artificial insemination subsidy on the uptake of technology by farmers in Nyandarua county
3. Brian Wekesa (2022). Injuries associated with high rise syndrome in cats presented to selected small animal clinics in Nairobi County.
4. Francis Lekan (2022). Correlation between calf weaning weights and dam weights at Kakuzi beef ranch.
5. Gillian Nyambura (2022). A retrospective study on the causes and economic impact of broiler carcass condemnation in a commercial poultry slaughter facility in Kenya.
6. Sheila Jepchumba Kipkurgat (2021). Knowledge Attitude and Practices of Pet Owners on Pet Grooming
7. Sugut, Victor Kiplimo (2021). Outlining the Development and First Application of Veterinary Electronic Ambulatory Medical Records.

8. Njuguna Moffat Maina (2021). The Economic Impact of Puppy Mortality in Kennels in Nairobi Metropolis.
9. Lesley Jane Sercombe (2020). Use of Reproductive Hormones in Overcoming Heat/Altitude Induced Anestrus in Working Mares.
10. Maina Salome Nyambura (2020). Perceptions, Practices and Attitudes of Peri-Urban Cat Owners on Cat Care.
11. Phylis Jepkatany Kandagor (2020). A Survey of Legal Cases Involving Animals in Kenya.
12. Martha Njango (2019). Incidences Of Secondary Recumbence in Smallholder Dairy Cattle Herds in Kikuyu.
13. Omondi Humphrey Oyugi (2019). Antimicrobial Resistance Awareness Among Farmers and Vet Drug Vendors in Kikuyu Sub-County, Kenya.
14. Mercy Chepkemoi (2018). Prospective Survey on Poultry Transportation Welfare In Nakuru County, Kenya.
15. Doris Cheruto Kemboi (2018). Prevalence and Causative Organisms of Bovine Mastitis at Regional Veterinary Investigatory Laboratory in Uasin-Gishu County.
16. Kimeto Mercy Cheptoo (2018). A Study of The Productivity of Indigenous Chicken in Bureti.
17. Cynthia Njeri (20218). Pet Owner Factors Affecting Small Animal Welfare (Dogs And Cats) With Regards to Veterinary Care in Nairobi.
18. Akombo Emmanuel (2017). Outcome of two estrus synchronization protocols in Homabay county cattle.
19. Mwakugu Jeanne Lena (2016). "Bacterial isolates and sensitivity results of milk samples presented to central veterinary laboratory in Kabete"
20. Ruth C Kogos (2014). "Evaluation of the outcome of various estrus synchronization protocols at a Dairy farm"
21. Mutura Janerose Muthoni (2016). "Evaluation of milking practices as a welfare issue in small scale dairy goat farms in Embu"
22. Daniel Mwangi (2016). "Assessment of the causes of semen discards at Kenya Animal Genetic Resource Centre"
23. Terer Allan Kipngetch (2015). "Bovine neonatal mortality in ADC farms in transzoia"



## **8. ADMINISTRATIVE RESPONSIBILITIES**

**2018 – Present:** Theriogenology section Head

Main responsibilities: I effectively manage day-to-day sectional activities as per policy, oversee teaching of reproduction curriculum for 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> year students and post graduates, oversee Curriculum reviews and development

**2016 – Current:** Chairperson, Faculty of veterinary Medicine attachment Co-coordinator

Main responsibilities: Organizing for placement of undergraduates in the faculty, organizing for field attachment supervision by staff in the faculty, providing letters of support to students for field attachment applications, entering students on internship opportunities and networking

**Achievement:** Developed an innovative way of evaluation students attachment to utilize our alumni

**2017 to 2020:** Departmental Examination Officer

**2016 to current:** JVM 561 course coordinator

**2022:** Member Veterinary Farm Committee

**2022:** Faculty of Veterinary Medicine Alumni Champion

ISO Technical committee member

## **9. PUBLICATIONS**

### **9.1 Thesis**

A.N KIPYEGON (2017). Effects of two endocrine disrupting compounds (17B-estradiol and alkylphenol) in Nairobi river-water on boar testicular descent and seminiferous epithelium. Doctor of Philosophy (PhD) Thesis, University of Nairobi

A.N KIPYEGON (2011). Effects of ripe papaya (*Carica papaya*) seed powder on the seminiferous epithelium of the Boar testis. Master of Science (MSc) Thesis, University of Nairobi.

### **9.2 Publications in Peer Reviewed Journals**

1. Nakami, W. N., Nguhiu-Mwangi, J., **Kipyegon, A. N.**, Ogugo, M., Muteti, C. Tiambo C, Oatley, Oatley & Kemp, S. (2022). Culture of Kenyan goat (*Capri hircus*) undifferentiated spermatogonia in feeder-free conditions. *Front. Vet. Sci.* in press. doi: 10.3389/fvets.2022.894075
2. Jesang A, **Kipyegon AN**, Mutembei HM, Mugube EO. 2022 Farm-level factors affecting dairy goat artificial insemination in Kenya *East African Agricultural and Forestry Journal*. Special Issue Volume 85: 250- 261

3. Nakami W, **Kipyegon AN**, Nguhiu-Mwangi J, Tiambo C, Kemp S. 2021. Culture of spermatogonial stem cells and use of surrogate sires as a breeding technology to propagate superior genetics in livestock production: A systematic review. *Veterinary World*. 14(12): 3235-3248.
4. Nakami, W. N., Nguhiu-Mwangi, J., **Kipyegon, A. N.**, Ogugo, M., Muteti, C., & Kemp, S 2022. Comparative Efficiency for in vitro Transfection of Goat Undifferentiated Spermatogonia Using Lipofectamine Reagents and Electroporation Stem cells and cloning: advances and applications. 15: 11–20
5. Njoroge EN, Mutembei HM, **Kipyegon AN**, Kimeli P, Olum MO.(2020). "Prevalence of Repeat Breeding Syndrome in Dairy Cattle in Selected Regions of Kenya." *International Journal of Veterinary Science*. 10(2):144-118.
6. **Kipyegon AN**, HM Mutembei, VT Tsuma, JA Oduma. (2017). Effects of exposure to effluent contaminated river water on boar reproduction. *Inter J Vet Sci*, 6(1): 49-52.
7. **Kipyegon AN**, HM Mutembei, VT Tsuma, JA Oduma, P Kimeli. (2016). Knowledge and Practices of the residents living along the Nairobi River Riparian on the use of the contaminated river for farming and its effects on animal reproduction. *J Agric and Vet Sci*. 9(8) Ver. I: 59-61.
8. **Kipyegon AN**, HM Mutembei, VT Tsuma, JA Oduma. (2016). Effects of Effluent Contaminated River Water on Testicular Histology of Mice. *Sch J Agric Vet Sci*; 3(6):411-415.
9. **Kipyegon AN**, HM Mutembei, VT Tsuma, JA Oduma. (2016). Levels Of 17 $\beta$  Steroid and Alkylphenol Estrogenic Endocrine Disrupting Compounds in Nairobi River. *Journal of Physical Science and Environmental Studies*. 2 (3): 46-49.
10. Mutembei HM, **AN Kipyegon**, ERMutiga. (2017). Environmental Estrogen-Like Endocrine Disrupting Compounds and the Dangers they pose on Male Fertility: Review Case of Nairobi River Water. *Journal of Physical Science and Environmental Studies* 3 (3): 25-29.
11. Kimeli P, Mbugua SW, Cap RM, Kirui G, Abuom TO, Mwangi WE, **Kipyegon AN**, Mande JD. (2015). A retrospective study on findings of canine hip dysplasia screening in Kenya. *Veterinary World* 8(11):1326-1330.
12. Mutembei HM, AE Cook, Muraya J, Makau DN, Aleri J, **Kipyegon AN**, Mulei CM. (2015). A One-Health Approach to Control the Incidence of Rabies in the Slums of Nairobi. *Journal of Medical and Biological Science Research* Vol. 1 (9):130-133.

13. Kimeli p, Amuti S, **KipyegonAN**, Mbugua S.W. (2015). Acute abdominal aortic rupture in a mare on transit. *international journal of agricultural science and veterinary medicine* 3(2): 20-22
14. Juma PO, **Kipyegon AN**, Muraya J, V Tsuma, 2015. Successful Use of Dexamethasone, Vitamin B12 and Vitamin E Selenium in Management of Bilateral Obturator Nerve paralysis in a Cow. *Inter J Vet Sci*, 4(3): 158-160
15. Kimeli P, **Kipyegon AN**, Mwangi WE, Mande JD, 2014. A case of Trypanosoma congolense savannah type infection and its management in a dog. *J. Adv. Vet. Anim. Res.*, 1(4): 232-234. <http://bdvets.org/JAVAR>
16. Kimeli P, Mogoia EM, Mwangi WE, **Kipyegon AN**, Kirui G, Muasya DW, Mande JD, Kariuki E, Mijele D, 2014. Use of brachial plexus blockade and medetomidine-ketamine-isoflurane anaesthesia for repair of radio-ulna fracture in an adult cheetah (*acinonyx jubatus*). *BMC Veterinary Research*, 10:249
17. Kimeli P, **AN Kipyegon**, DN Karanja, 2014. Fatal obstructive urolithiasis in a 5-month-old buck: a case report. *Inter J Vet Sci*, 3(1): 40-42. [www.ijvets.com](http://www.ijvets.com)
18. Kimeli P, **Kipyegon AN**, Mwangi WE, Mogoia EGM, DN Karanja, 2014. Diffuse peritonitis associated with ventral hernia in an adult doe: Case report. *Journal of agriculture and veterinary sciences* 7(1): 53-55. [www.iosrjournals.org](http://www.iosrjournals.org)
19. **Kipyegon AN**, HM Mutembei, VT Tsuma, JA Oduma, 2012. Effects of ripe Carica Papaya seed powder on testicular histology of boars. *Inter J Vet Sci*, 1(1): 1-4.
20. JW Aleri, TO Abuom, JM Kitaa, **AN Kipyegon**, CM Mulei, 2012. Clinical Presentation, Treatment and Management of Some Rabbit Conditions in Nairobi. *Bulletin of Animal Health and Production in Africa* > Vol 60, No 2
21. Aleri, J.W., **Kipyegon, A.N.**, Mande, J.D., Mulei, C.M, Karanja, D.N. An acute respiratory distress syndrome due to Babesiosis in a Dog. *Research journal of animal sciences* 5 (2): 14-16, 2011.

### 9.3 Conference Presentation/ Proceedings

1. **Kipyegon, A.N.**, Nakami. W., Kirui, G., Mathai, L., Mbugua, S.W and Okumu P.O. Animal Welfare Challenges; Penile Amputation during Castration Malpractice in a 2-Month-old Puppy. *KVA 49th annual scientific conference 2015*.

2. **Kipyegon AN**, HM Mutembei, VT Tsuma and JA Oduma. Seminiferous epithelium response to dietary papaya seed administration. *KVA 48th annual scientific conference 2014.*
3. Muraya J, **Kipyegon AN**, Mogoia EM, and Kirui KG. Partial mastectomy for management of chronic gangrenous mastitis in an adult lactating cow. *Kenya Veterinary Association 47th annual scientific conference 2013.*
4. **Kipyegon AN**. Effects of ripe papaya seed powder on the seminiferous epithelium of the boar testis-abstract qualifies for presentation during the *17<sup>th</sup> international congress on animal reproduction Vancouver Canada. 2012.*
5. Aleri, J.W., Abuom, T.O., Kitaa J.M., **Kipyegon, A.N.**, and Mulei, C.M. An overview of rabbit conditions presented to the small animal clinic, University of Nairobi Kenya. *Kenya Veterinary Association 45th annual scientific conference 2011.*
6. **Kipyegon, A.N.**, Abuom, T.O., Aleri, J.W. and Mulei, C.M. Traumatic Diaphragmatic Hernia in 3 Canines: Case report. *Faculty of veterinary medicine 7th Biennial conference 2010.*
7. Bundi, R.M., Gakuya, D.W., **Kipyegon, A.N.** and Muthee, J.K. An outbreak of Sheep and Goat Pox in a Farm in Kiambu west District. *Faculty of veterinary medicine 7th Biennial conference 2010*

#### 9.4 Technical Reports

1. Technical Report on One Health Training Needs Assessment of Middle Level Training Institutions in Kenya. Technical support to AFROHUN-KE, 2021.
2. Technical report on the Training Needs Assessment of Frontline Workers within Health Care Sector in Kenya. Technical support to AFROHUN-KE, 2020.

#### 9.5 Manuals Developed

AFROHUN (2021). Student one health innovation club (SOHIC) guide.

AFROHUN KENYA (2022). Student field Experiential learning guide

### 10. COMMUNITY OUTREACH

#### 10.1 Community Trainings and Engagements Conducted

1. November 2018: Farmer group training on aspects of dairy production including: dairy housing design and its impact on health and herd management and essentials of raising a healthy calf from calving to weaning. The training was sponsored by Caritas under its “Tulinde ukulima wetu, tuhakikishe uhai wetu” Program.

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2. Annual community outreach to sensitize on Rabies and control of reproduction in small animals
  3. **2011:** Team lead; UON Veterinary Response Team against Drought in Mwingi.
  4. **2013:** participant; UON Veterinary Response team in Tana River inter-ethnic conflicts

## **11. PROFESSIONAL ENGAGEMENTS**

I have applied my professional knowledge and skills to better the society and improve animal and human welfare through the following key activities.

1. The embryo transfer project in OlPejeta conservancy
2. Goat embryo manipulation and transfer in ILRI
3. Community One Health sensitization in Siaya
4. Registered member Kenya Veterinary Board
5. Registered member Kenya Veterinary Association

## **12. REFERENCES**

1. Prof. Daniel Gakuya,  
Benedictine friar- Tigoni, Nairobi  
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2. Prof. John Demesi Mande  
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University of Nairobi  
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+254 733 72 52 12
3. Prof. Henry M. Mutembei  
Deputy Vice Chancellor  
(Administration, Finance, Planning and Development), Chuka University  
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