

## CURRICULUM VITAE

2025

Dr. Catherine Kaluwa (BVM, MSc, PhD); Animal Physiology **Senior Lecturer & Chairperson, Department of Veterinary Anatomy and Physiology**, Faculty of Veterinary Medicine, University of Nairobi.

### 1.0 PROFILE

Dr. Catherine Kaluwa is a trained veterinarian with a PhD in Animal physiology and a **Senior Lecturer** in the Department of Veterinary Anatomy and Physiology at the University of Nairobi.

She is the **Chairperson Department of Veterinary Anatomy & Physiology** and the **Coordinator**, Centre for Natural Products Bio prospecting (CENBIO). She **chairs the University of Nairobi, Biosafety, Animal Care and Use Ethics Committee**. She also Chair's the **Institutional Animal Care and Use committee (IAUCUC) at the National Surgical Skills Centre** located in Chiromo campus.

She is a reviewer of FVM Post Graduate committee and is the immediate former **Country Lead Kenya for a 4-year IDRC Livestock Innovations grant in collaboration with Tufts University and AFROHUN network**.

Her university teaching and research experience is fourteen years. She has been involved in teaching and mentoring both undergraduate's and postgraduate students including guiding student research projects. She has supervised to completion two (2) doctorate and ten (10) MSc. students and is currently supervising (2) PhD and (3) Masters Student's. She has published twenty-five papers and one book chapter in International peer reviewed journals. Has presented talks in International conferences, seminars and workshops and participated in multidisciplinary research projects. Catherine has undertaken short-term trainings in higher education teaching including pedagogy courses. Results of appraisals by students, peer panels and evaluation by her supervisors rates her performance as exceeding expectations.

### INITIATED PARTNERSHIPS

1. Memorandum of understanding between the University of Nairobi and Kenya National Traditional Health Practitioners Association (signed in sept 2020) valid for 5 years. The Centre for Natural Product Bio prospecting (CENBIO) will undertake capacity building of registered Nathepa members on GMPs at a cost; undertake research and validate herbal medicine efficacy, safety, Biochemical and Phytochemical analysis, herbal medicine formulation, establish shelf life and initiate intellectual property right at 25:25:50 benefit for UON, Nathepa and individual herbalists. One hundred Nathepa members trained to date, attracted Ksh 1,500,000 to UON vote no **500661900**.
2. Erasmus+ Programme Inter-institutional agreement. Key objective; Learning mobility for higher education students and staff. A cooperative agreement between the University of Nairobi and the University of Agriculture in Krakow (Poland); 2024-2027. The universities have committed to undertake joint research in Reproductive Anatomy and Physiology.

University of Nairobi staff have attracted **(10,800 Euros)** and one graduate student **(4200 Euros)**.

## 2.0 PERSONAL DATA

- |     |                |   |
|-----|----------------|---|
| 2.1 | Designation    | Senior Lecturer & Chairperson   |
| 2.2 | Email          | <a href="mailto:ckaluwa@uonbi.ac.ke">ckaluwa@uonbi.ac.ke</a>  |
| 2.3 | Contact        | +254721632622, +254 20 491 4116   |
| 2.4 | Nationality    | <b>Kenyan</b>   |
| 2.5 | Specialization | Animal physiology; reproductive biology; Natural products efficacy and safety validation, herbal medicine bio prospecting, shelf life and formulation using GMPs. |

Validation of cancer, reproductive effects, among other properties of natural products.

Quantitative and qualitative data analysis; participatory impact assessment, gender analysis, gender evaluation, stakeholder engagement using outcome mapping.

## 3.0. ACADEMIC BACKGROUND AND QUALIFICATIONS

- |     |   |      |
|-----|---|------|
| 3.1 | PhD in Animal physiology, University of Nairobi                                   | 2016 |
| 3.2 | MSc in Reproductive Biology, University of Nairobi                                | 2010 |
| 3.3 | Bachelor of Veterinary Medicine (BVM), University of Nairobi, Kenya               | 1991 |
| 3.4 | Kenya Advanced Certificate of Education (KACE), Star of the Sea Girls High School | 1985 |
| 3.5 | Kenya Certificate of Education (KCE); St Johns Girls Secondary School             | 1983 |
| 3.6 | Certificate of Primary Education (CPE), Garsen Primary School                     | 1979 |

## 4.0 ADMINISTRATIVE RESPONSIBILITIES

- 4.1. Chairperson, Department of Veterinary Anatomy & Physiology, March 2025 to date
- 4.2 Chairperson, Biosafety Animal care and use committee FVM 2018 to date.
- 4.3. Member, FVM management Committee; March 2025 to date.
- 4.4 Member, FVM, Disposal committee March 2025 to date
- 4.5 Coordinator; Centre for Natural Products Bioprospecting, 2022 to date.
- 4.6. Coordinator; MSc Reproductive Biology program curriculum review as per TOR.
- 4.6. Chairperson, Ethical committee National Surgical Skills Centre Chiromo campus.
- 4.7. Member FVM National cohesion, values and Principles of Governance committee.

## 5.0 PROFESSIONAL ENGAGEMENT

5.1 Regional Coordinator One Health collaborative; a collaborative Fellowship between Tufts University, Rwanda University and University of Global Health Equity for Rwandese professionals funded by Cummings foundation **March 2024 to date**

## 6.0. OTHER TRAININGS

- 6.1. Pandemic Preparedness and Response through a One-Health Lens. Online seminar series **May to July 2020**. Tufts Cummings school of Veterinary Medicine.
- 6.2. Qualitative Data analysis training. Tufts Cummings School of Veterinary Medicine. **February 2020**.
- 6.3. Livestock Vaccine Innovation project/ Tufts Cummings school of Veterinary Medicine stakeholder seminar, **21 November 2019**, Kigali, Rwanda.
- 6.4. Women Empowerment Livestock Index training, **7<sup>th</sup> to 10<sup>th</sup> October 2019**. ILRI and Tufts Cummings school of Veterinary Medicine.
- 6.5. Gender and methodology Training, Tufts Cummings school of Veterinary Medicine and One Health Central and East Africa. **8<sup>th</sup> to 12 July 2019**, Uganda.
- 6.6. Strategic management and Leadership certificate course by KIM **November 2018**.
- 6.7. Lecturer Didactics Training held at the College of Agriculture & Veterinary Sciences, University of Nairobi. **August 24<sup>th</sup> and 25<sup>th</sup> 2016**.
- 6.8. Advanced Health research Methods course for Program Leaders / Managers and Researchers in Africa. **November 2010**.
- 6.9. Integrated Organ System Pharmacology, organized by School of Pharmacy, University of Nairobi. **April 2010**.
- 6.10. Laboratory animal science (FELASA) training organized by UPPSALA University and University of Nairobi. **May 2008**.
- 6.11. Scientific communication and publishing Techniques. **April 2008**.
- 6.12. Training on transformative leadership and result based management at the University of Nairobi. **October 25, 2007**.
- 6.13. Training of Facilitators, Food security Programming organized by Plan International, Kenya. **February 2004**.
- 6.14. Community Organization Skills training. **September 2001**.
- 6.15. Participatory Rural Appraisal Program; Egerton University. **September 2001**.
- 6.16. National Youth Service. **1987**.

## 7.0. LECTURING AND INSTRUCTION EXPERIENCE

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

### 7.1 Undergraduate teaching

I have taught and or/ been involved in development and revision of the following syllabi;

- Bachelor of Veterinary Medicine.
- Bachelor of Science in Wildlife Management.
- Bachelor of Science in Biochemistry.

- Bachelor of Science in Agriculture.
- Bachelor of Science in Food Science & Technology.
- Bachelor of Science in Agriculture, Education & Extension.

## 7.2 Post Graduate teaching

I have taught and or been involved in development and revision of the following course curriculum; Master of Science and Doctor of Philosophy degree in Comparative Animal Physiology and in Comparative Veterinary Anatomy and Cell Biology.

## 8.0. POSTGRADUATE SUPERVISION

I am a scholar with a proven record of accomplishment in supervision and mentoring of Master and PhD students. I have supervised to completion two (2) doctorate and ten (10) Master students.

I have so far also served as an External examiner to one MSc dissertation, and as an Internal examiner of ten (15) MSc theses.

### 8.1. Completed doctorate students

- 8.1.1. **Dr. Ann Ndululu Ndeke** (J87/53666/2018). Elucidating contraceptive properties of Acetaminophen using mice model. Graduated Doctorate degree in September 2022, University of Nairobi.
- 8.1.2. **Ms. Judith Kemunto Achoki** (J87/56134/2020). Role of *Lemna minor* (duckweed) on growth, reproductive parameters and polyunsaturated fatty acid levels (PUFA's) of *Oreochromis niloticus*. Graduating Doctorate degree in September 2024, University of Nairobi.

### 8.2. Completed master's student

- 8.2.1. **Kenana Jacqueline Kisianan** (J56/ 87073/2016). Toxicological and Phytochemical evaluation of *Uvariadendron kirkii*. MSc Pharmacology & Toxicology, University of Nairobi.
- 8.2.2. **Linnet Mwende Kaaria** (J56/6869/2017). Evaluation of *Asparagus racemosus* from Nakuru County, Kenya on selected female reproductive parameters. MSc. Comparative Animal Physiology, University of Nairobi.
- 8.2.3. **Kagunya Emma Wanjiku** (J56/7684/2017). Phytochemical and Toxicological evaluation of *Croton menyharthii*. MSc. Pharmacology & Toxicology, University of Nairobi.
- 8.2.4. **Ann Ondieki Moraa** (I56/14382/2018). Raman spectrometric study of influence of Acetaminophen on female mice reproductive hormone levels in blood. MSc Physics, University of Nairobi.
- 8.2.5. **Loice Namanya** (I56/11843/2018). Application of Raman spectroscopy in comparative study on the influence of Ibuprofen and *Asparagus racemosus* (herbal extract) on female reproductive hormones in wistar rats. MSc Physics, University of Nairobi.

- 8.2.6. **Anita Mary Mziray** (SM21/ 11732/ 2016). Antifertility properties of *Cissus rotundifolia* extracts. MSc. Animal Physiology, Egerton University 2017.
- 8.2.7. **Esther wairimu Kinyua** (SM21/20010/2016). Evaluation of contractile effects of *Uvariadendron kirkii* extract on isolated uterine strips of female wistar rats. MSc. Animal Physiology Egerton University 2017.
- 8.2.8. **Wanjohi Judith Nyawira** (J56/7685/2017). Toxicological and Phytochemical evaluation of *Cissus rotundifolia*. MSc in Pharmacology & Toxicology, University of Nairobi.
- 8.2.9. **Faduma Abdullahi Abdirahman** (J56/12447/2018). Assessment of gender constraints, opportunities and impacts along the New castle disease vaccine value chain. MSC. Animal Livestock Systems. University of Nairobi.
- 8.2.10. **Peter J. Kasyoki** (HSM 3024017/2016). Safety and Fertility Potential of Kenyan *Grewia tenax* Root Extract in female albino rats. MSc Medical Physiology. JKUAT.

### 8.3. Ongoing Master's students

- 8.3.1. **Dr. Samuel Wafula** (J56/38825/2020). Biochemical and Physiological evaluation of effects of cassava (*manihot Esculenta crantz*) meal on reproductive performance in female wistar rats (*Rattus norvegicus*). Registered for MSc degree in September 2020, University of Nairobi.
- 8.3.2. **Manasiti Omar (A60/13636/2018)**. Assessment of climate change community risk transfer governance and livestock insurance uptake among pastoralists in Olkiramatian East, Kajiado West Sub-county. University of Nairobi.

### 8.4. Ongoing doctorate students

- 8.4.1. **Joseph Kathare Murithii** (J87/59744/2022), Knowledge, Attitude, implementation status, and the role of medication therapy management for cancer patients in Kenya. Registered in 2022 University of Nairobi
- 8.4.2. **Micheni Ndei Kiraithe** (A82/51244/2016). Governance and Sustainable use of medicinal plants in Kenya Ethnomedicine. University of Nairobi.

## 9.0 EVALUATION OF THESIS AS EXTERNAL & INTERNAL EXAMINER

### 9.1 External examiner

- 9.1.1: Amina Bitta Burilo (MSc Animal Reproduction and Biotechnology; Sokoine University of Agriculture 2023.

### 9.2. Internal examiner

- 9.2.1 Micheni Ndei Kiraithe; Governance and Sustainable use of medicinal plants in Kenya Ethnomedicine. University of Nairobi
- 9.2.2 Judith Kemunto Achoki, PhD Comparative Animal Physiology; University of Nairobi 2024.
- 9.2.3 Patricia Waithera Chege MSc. Therigenology University of Nairobi 2024.
- 9.2.4 Oruone Isaiah Sotonye MSc. Therigenology, University of Nairobi 2024.
- 9.2.5 Dennis Jack Opweko MSc Pharmacology & Toxicology, University of Nairobi 2023.

- 9.2.6 Peterkin Munywoki Nzomo; MSc Theriogenology, University of Nairobi 2023.
- 9.2.7 Mungei Consolata Kwamboka, MSc Physics, University of Nairobi, 2023.
- 9.2.8 Mercy Rispa Wambui; MSc Pharmacology & Toxicology, University of Nairobi **2023.**
- 9.2.9. Adlight Begede; MSc Pharmacology & Toxicology, University of Nairobi.
- 9.3.0. Iyaile Anthony; MSc Pharmacology & Toxicology, University of Nairobi.
- 9.3.1. Anita Mziray. MSc Animal Physiology, Egerton University.
- 9.3.2. Mudimba Toonse Nguwesu, MSc Pharmacology & Toxicology, University of Nairobi.
- 9.3.4. Esther Kinyua, MSc Animal Physiology, Egerton University.
- 9.3.5 Joseph Kathare, MSc Pharmacology & Toxicology, University of Nairobi.
- 9.3.6 Stella Kwamboka, MSc Pharmacology & Toxicology, University of Nairobi.
- 9.3.7 Benson Muthee Kanji, MSc Pharmacology & Toxicology, University of Nairobi.

## 10.0. SCHOLARLY PUBLICATIONS THESIS

- 10.1. C.K Kaingu (2016). Evaluation of anti-fertility properties of *Croton menyharthii* and *Uvariadendron kirkii* in Female winstar rats. Doctor of Philosophy (PhD) Thesis, University of Nairobi.
- 10.2. C.K Kaingu (2010). In vitro study of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterine strips. Master of Science (MSc) Reproductive Physiology Thesis, University of Nairobi.

## 10.3 BOOK CHAPTERS

- 10.3.1 Brigitte Bagnol, **Catherine Kaluwa et al., 2025.** Supporting women smallholders involved in poultry farming. CH35 manuscript ID BDSP-BK-2023-0160. RI.

## 10.4 PUBLICATIONS IN PEER REVIEWED JOURNALS SINCE LAST PROMOTION

- 10.41 Marta Zarzycka., Anna Kozekwa, Joanna Dulinka-Litewka, **Catherine Kaluwa**, malgorzata Kotula-Balak (2025). Red deer antler stem cell culture medium inhibits prostate cancer cells. *Histochemistry and Cell Biology* 163:41 <http://doi.org/10.1007/s00418-025-02373-6>
- 10.4.2. Micheni Kiraithe, **Catherine Kaluwa**, John Muthama Nzioka (2024). Pre-colonial Kenyan medicinal biodiversity governance and sustainable utilization. *Journal of Biodiversity and Environmental Sciences* 24:125-139.
- 10.4.3. Micheni Kiraithe, John Muthama Nzioka, **Catherine Kaluwa**, Peter Mbaabu (2024). Evaluation of the impact of anthropogenic activities on sustainable use of medicinal biodiversity in realization of Kenya's vision 2030 agenda for sustainable development. *European Journal of Sustainable Development Research*. 8 (1) 2542-4742.
- 10.4.4. Judith Achoki, Paul Orina, **Catherine Kaluwa**, Jemimah Oduma, Albert Getabu (2024). Comparative study on Fatty acids composition of *Lemna minor* (Duckweed) cultured in Indoor plastic tanks and Outdoor Earthen ponds. *Hindawi Aquaculture Research* 9:00.

- 10.4.5. Judy Kemunto, **Catherine Kaluwa** et al. **2024**. Does Duckweed (*Lemna minor*) feed inclusion play a role in growth, Feed Conversion Ratio and Reproductive performance in omnivorous Fish? Wiley, *Aquaculture Fisheries and Fish*: 344-359.
- 10.4.6. Angela Adhiambo, Geoffrey Muga, **Catherine Kaluwa**, Jemimah Oduma et al., (**Jul 2023**). Women's Access to and Control over the five Forms of Capital in Machakos Town Sub-County, Kenya. *International Journal of Science and Research*, 12 (7).
- 10.4.7. Faduma Abdullahi, Raphael Wahome, **Catherine Kaluwa**, et al., (**Jan 2023**). Gendered Barriers and Opportunities for Women Smallholder Farmers in the Newcastle disease vaccine value chain in Kenya. *Tropical and Subtropical Agroecosystems*, SI, V. 26.
- 10.4.8. **Catherine Kaluwa**, Jemimah Oduma, Faduma Abdullahi, et al., (**Nov 2022**). Using the Women empowerment in Livestock Index to examine linkages between women smallholder livestock farmers' empowerment and access to livestock vaccines in Machakos County of Kenya. Insights and critiques. *Vaccines* 10, 1868.
- 10.4.9. Kyotos Kitoga, Jemimah Oduma, Raphael Githaiga Wahome, **Catherine Kaluwa** et al (**July 2022**). Gendered Barriers and Opportunities for Women Smallholder Farmers in the Contagious Caprine Pleuropneumonia Vaccine Value Chain in Kenya. *Animals* 10, 26.
- 10.5.0. Peter J. Kasyoki, **Catherine K. Kaingu**, Christine O. Wangia and Faraj O. Alkizim (**2022**). Fertility Effects Of *Grewia tenax* Methanolic Root Extract on Female Wistar Rats. *International Journal of Medicinal Plants* 116 (2022) 992-1001.

## 10.5 PUBLICATION IN PEER REVIEWED JOURNALS

- 10.5.18. Ndeke AN; Mutembei HM; **Kaingu CK**; Muthee, Birech Z, Ondieki AM (**2021**). Effect of Acetaminophen on oestrous cycle and reproductive hormones in female mice. *International Journal of Veterinary Science* 2305-4360.
- 10.5.17. Ndeke AN; Mutembei HM; **Kaingu CK**; Muthee (**2020**). Effect of Acetaminophen on ovulation and Implantation in Female mice. *International Journal of Veterinary Science* 2305-4360.
- 10.5.16. Judith Nyawira, **Catherine Kaingu**, James Mbaria (**2020**). Toxicological and Phytochemical evaluation of *Cissus rotundifolia* from Tana River County Kenya. *Discovery Phytomedicine* 7(3) 103-111.
- 10.5.15 Emma WK, **Catherine Kaingu**, James Mbaria (2020). Acute and Subacute oral toxicology and phytochemical profile of *Croton menyharthii* plant from Tana River County. *Discovery Phytomedicine* 7(3) 118-127.
- 10.5.14 Peter J. Kasyoki, **Catherine K. Kaingu**, Christine O. Wangia<sup>3</sup> and Faraj O. Alkizim (**2020**). Safety and Fertility Potential of Kenyan *Grewia tenax* (Mukawa Wa Guba) Root Extract Secondary Metabolites. *European Journal of Medicinal plants* 31(7): 17-23.
- 10.5.13. Anita Mary Mziray, Charles Irungu Maina, **Catherine Kaluwa Kaingu** (**2020**). Anti-fertility properties of *Cissus rotundifolia* (Forssk.) Vahl. Extract using female Wistar rats. *Discovery Phytomedicine* 7(2): 58-64.
- 10.5.12 Esther Wairimu Kinyua, Charles Irungu Maina<sup>1</sup>, **Catherine Kaluwa Kaingu**, David Kayaja Wafula (**2020**). Evaluation of oxytocin like effects of *Uvariadendron kirkii* (Verdec) extracts on isolated uterine strips of wistar rats. TANG / www.j-tang.org 2020 / Volume 10 / Issue 1 / e2

- 10.5.11 **Kaingu C.K** and Oduma J.A (2019). Toxicology, phytochemistry, hormonal and ovarian disruption properties of *Uvariadendron kirkii* and *Croton menyharthii* from Tana River County, Kenya. *International Journal of Medicinal plants research* 8(12): 001-006.
- 10.5.10 **Catherine K. Kaingu**, Jemimah A. Oduma (2019). Potential of *Croton menyharthii* and *Uvariadendron kirkii* aqueous extracts as female Novel contraceptives (2019). *Discovery Phytomedicine*. 6 (3) 112-118.
- 10.5.9 Linet Mwende Kaaria, Jemimah Achieng Oduma, **Catherine Kaluwa Kaingu**, Peggoty Chepkoech Mutai, David Kayaja Wafula (2019). Effect of *Asparagus racemosus* on selected female reproductive parameters using Wistar rat model *Discovery Phytomedicine*. 6 (4) 199-204.
- 10.5.8 Jacqueline Kisianan; James Mbaria; **Catherine Kaingu** (2019). Toxicological and Phytochemical evaluation of *Uvariadendron kirkii* extracts. *The Journal of Ethnobiology and Traditional Medicine*. 130 (2019) 1487-1504.
- 10.5.7 **Catherine K. Kaingu**, JA. Oduma, James Mbaria, Stephen G. Kiama (2018). Antifertility and anti-implantation potential of *Croton menyharthii* and *Uvariadendron kirkii* aqueous extracts in female winstar rats. *International Journal of Medicinal Plants* 112: 844-855.
- 10.5.6 **Catherine K. Kaingu**, JA. Oduma, James Mbaria, Stephen G. Kiama (2017). Effects of *Croton menyharthii* and *Uvariadendron kirkii* on corpora lutea and reproductive hormones. *Discovery Phytomedicine* 4(1): 21-25.
- 10.5.5 **Catherine Kaluwa Kaingu**, JA Oduma, JM Mbaria, SG Kiama, (2014). Ethnobotanical study of medicinal plants traditionally used In Tana River County for the management of illnesses. *Asian Journal of Complementary and Alternative Medicine* 02 (02); 2014; 01-05.
- 10.5.4 **Kaingu C.K.**, JA Oduma, JM Mbaria, SG Kiama, (2013). Ethnobotanical survey of medicinal plants used for the management of male sexual dysfunction and infertility in Tana River County, Kenya. *Journal of Ethnobiology and Traditional Medicine*. Photon 119 (2013) 453-363.
- 10.5.3 **Kaingu C.K.**, JA Oduma., JM Mbaria, SG Kiama, (2013). Medicinal plants traditionally used for the management of female reproductive health dysfunction in Tana River County, Kenya. *Tang International Journal of Genuine Traditional Medicine* Volume 3 (2), e17.1-17.10.
- 10.5.2 **C. Kaluwa Kaingu**, JA Oduma, T. Kanui (2012). Preliminary investigation of contractile activity of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterine strips. *Journal of Ethnopharmacology* 142 (2012) 496–502.
- 10.5.1. **Kaingu CK**; Jemimah Oduma; Titus Kanui (2011). Practices of Traditional Birth Attendants in Machakos District, Kenya. *Journal of Ethnopharmacology* 137: 495-502.

## 11.0 PAPERS READ IN INTERNATIONAL SCIENTIFIC CONFERENCES AND WORKSHOPS

- 11.1. Kaingu C.K et al., (2016). Anti-fertility properties of selected medicinal plants traditionally used as fertility regulators in Tana River County, Kenya. Rise Affnet Workshop. Nairobi Node Meeting. **15<sup>th</sup> to 18<sup>th</sup> June 2016** Mash Park Hotel Nairobi, Kenya.
- 11.2. Kaingu C.K et al., (2015). Anti-fertility properties of selected medicinal plants traditionally used as fertility regulators in Tana River County, Kenya. Regional RISE-AFNNET Fellows ‘Conference **11<sup>th</sup> September 2015** at Imperial Royale Hotel, Kampala, Uganda.



- 11.3. Kaingu CK et al., (2013). Ethnobotanical management of male sexual dysfunction and infertility in Tana River County, Kenya. 15 Symposium of the Natural Product Chemistry Research Network for Eastern and Central Africa (NAPRECA) **3 to 10 December 2013** Khartoum Sudan.
- 11.4 Kaingu C.K et al (2013). Medicinal plants traditionally used for the management of female reproductive health dysfunction in Tana River County, Kenya at Regional RISE-AFNNET students Scientific Conference in Imperial Royale Hotel, Kampala, Uganda (**14<sup>th</sup> -16<sup>th</sup> February 2013**)
- 11.5 Kaingu C.K (2010). Medicinal plants used by Traditional Birth Attendants in the management of pregnancy complications in Machakos District, Kenya. Bi annual Scientific Conference, CAVS, **September 2010**.
- 11.6 Kaingu C.K (2010). The effect of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterus. Bi annual Scientific Conference, **CAVS, September 2010**.

## 12. PARTICIPATION IN CONSULTANCIES/ FUNDS ATTRACTED TO UNIVERSITY

- 12.1. LVIF-IDRC Grant (**March 2019 – March 2023**). Collaborative multi-national and multi-disciplinary project entitled “Action research to support women’s agency and empowerment in livestock vaccine distribution, delivery and use in Rwanda, Uganda and Kenya”. **Roles:** I am the Kenya Country Lead. The project is worth about USD 150,000 in total per country.
- 12.2 Principal investigator in the toxicity consultancy awarded to the department of Veterinary Anatomy and Physiology by the Pest Control Produce Board (PCPB). The following are some of the products whose toxicity profile done at the Department. Each product attracts funds to the Department from clients that vary between Ksh. 550,000 to 800,000.

No	Description	Client	Year
1.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on FORAY 300 SC to generate data for registration by PCPB	Osho Chemicals LTD	2017
2.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on Potphos plus 507 to generate data for registration by PCPB	Osho Chemicals LTD	2017
3.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on Abamex 185 SC to generate data for registration by PCPB	Osho Chemicals LTD	2017
4.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on Pyretone grease to generate data for registration by PCPB	Maj Chemie LTD	2015
5.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on permacure to generate data for registration by PCPB	Afrique concepts	2015
6.	Acute oral toxicity, acute dermal toxicity, skin sensitization, acute inhalation and eye irritation tests on	Kamili nature brands	2015

	Uzimax 20EC to generate data for registration by PCPB		
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### **13.0. RESEARCH SKILLS**

- 13.1 Stakeholder engagement using outcome mapping.
- 13.2 Qualitative Research Methods.
- 13.3 Qualitative and Quantitative data analysis.
- 13.4 Computer skills for Managers.
- 13.5 Disease surveillance, biology and laboratory animal husbandry.
- 13.6 Advanced health research methods for managers and Researchers.

### **14.0 MEMBERSHIP OF ASSOCIATIONS**

- 14.1 Registered member Kenya Veterinary Board.
- 14.2 Registered member Kenya Veterinary Association
- 14.3. Member Pharmaceutical society of Kenya
- 14.4. Member Departmental laboratory Techniques and Practice committee 2013 to date
- 14.5 Member Physiological society of Kenya
- 14.6 Member Student Mentoring University of Nairobi Committee 2016 to date

### **15.0. ACADEMIC REFEREES**

- 15.1. Prof. John Mande.  
Deputy Vice Chancellor, Human Resource & Administration  
Professor of Veterinary Surgery;  
University of Nairobi  
P.O Box 30197- 00100. NAIROBI  
Email: [dvchra@uonbi.ac.ke](mailto:dvchra@uonbi.ac.ke)
- 15.2 Prof. Stephen Gitahi Kiama.  
Professor of Veterinary Anatomy and Cell Biology;  
Department of Veterinary Anatomy and Physiology University of Nairobi,  
P.O Box 30197- 00100. NAIROBI.  
Email [kgitahi@uonbi.ac.ke](mailto:kgitahi@uonbi.ac.ke) [kiama123@yahoo.com](mailto:kiama123@yahoo.com).  
Tel +254 722380971
- 15.2. Prof. James Mbaria.  
Professor of Pharmacology and Toxicology;  
Department of Public Health, Pharmacology & Toxicology,  
University of Nairobi.  
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