

CURRICULUM VITAE FOR PROF M'IKIUGU HENRY MUTEMBEI (B.V.M, M.Sc,  
PhD, MKVA, MKVB)



**PROF. HENRY MUTEMBEI M'IKIUGU**

**B.V.M, MSC, PHD, MKVA, MKVB**

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## 1. BIODATA

I received my degrees of Bachelor's of Veterinary Medicine (1995, graduating as the top student) and Masters of Clinical Studies (1999) from the University of Nairobi, before proceeding to the University of Justus Liebig University in Giessen, Germany where I attained a Doctor of Philosophy on Molecular and endocrine effects of estrogens on male fertility (2006, graduating with the Very Best Grade of "*Summa cum Laude*").

Professionally I have maintained a strong path of vibrant research and teaching careers, providing mentorship and supervision of both students, teaching and non-teaching staff, and supervision of both undergraduate and postgraduate students.

Over the last nine (9) years I have held management positions as Academic head, Coordinator of Programmes, Project Management, board member, and Acting Positions of Management within the University. This experience has exposed me to the day-to-day running operations of the University and at the same time sharpened my leadership skills and gave me an opportunity to demonstrate visionary, and transformative and strategic leadership. Currently I am the Director of Wangari Mathai Institute of Peace and Environmental Studies, providing the direction of the institute and supervising learning of 22 Masters and 36 PhD students. I am also in the Board of Postgraduate Studies and the College representative and also serve as the Faculty Coordinator undergraduate projects and Field attachments.

Regionally I am the Project Coordinator of the Disaster Management Project that started in 2010. This project has managed to develop new programmes that have since been embedded into the veterinary curriculum and also responded to five national and one international disasters. This project has network of partners across the globe.

I have a 19 year cumulative experience of research and teaching experience at various institutions including University of Nairobi, University of Justus Liebig in Giessen, International Livestock Research Institute, Cambridge University and Embrapa institute in Brazil. Taken together I have a unique experience that blends across disciplines of veterinary medicine, animal welfare, disaster management and environmental endocrine toxic waste management.

I have actively engaged in societal leadership roles including serving as the faculty club vice chairman for three years, chairman of board of management of Kiune Secondary

School, Vice chairman of the Fortsmith Residents Water Project and the Chairman of Hesmak Self Help group.

Overall I am a hard working Kenyan raised from a humble background who is a team player and determined to see positive institutional transformations in Kenya. I am a patriot who is well trained in the field of Animal and Environment Science with hands on experience of 21 years in teaching at the University, training local and international professionals, conducting national duties, and engaging in research and community service.

I have a demonstrated ability to establish collaborative networks with local and international stakeholders, with examples of linkages with ILRI, World Animal Protection, Counties, Royal Veterinary College, Giessen University, and Cambridge University. To every Institution called to duty, I bring on board proven grant writing skills that would attract project funds, ability to mentor human resouce, capability to mananage students and sound skills of publications.

## 2. PERSIONAL DATA

**Name:** Prof. M'IKIUGU Henry Mutembei  
**Date of birth:** 16<sup>th</sup> August 1970  
**Place of birth:** Igoji, Meru County  
**Nationality:** Kenyan  
**Marital status:** Married  
**Languages:** Kimeru, German, Kikuyu, English, Kiswahili  
**Current Administrative Position:** Director, Wangari Mathai Institute of Peace and Environmental Studies  
**Current Address:** University of Nairobi, Department of Clinical Studies, P.O Box 29053-00625, Nairobi, Kenya. Tel: +254-20-2055199  
**Mobile Phone:** +254-724-857668 or +254-736-446297  
**E-mail Addresses:** [hmutembei@uonbi.ac.ke](mailto:hmutembei@uonbi.ac.ke) or [hmutembei2002@yahoo.co.uk](mailto:hmutembei2002@yahoo.co.uk)  
**Website:** <http://uonbi.ac.ke> or <http://wmi.uonbi.ac.ke>

## 3. ACADEMIC QUALIFICATIONS

**2006-2007: Postdoc:** Effects of environmental contaminants on male fertility. Justus-Liebig University, Giessen, Germany  
**2003-2006: PhD:** Molecular and endocrine effects of estrogens on male fertility. Graduated with the Very Best Note of “*Summa cum Laude*”  
Justus-Liebig University, Giessen, Germany  
**2003-2005: Diplom:** Masters equivalent studies on biotechnology in animal production on manipulation and preservation techniques for animal products.  
Justus-Liebig University, Giessen, Germany  
**2002: German Certificate:** Goethe Institute, Dresden, Germany  
**1996-1998: Masters:** Master of Science in Clinical Studies. Department of Clinical Studies, University of Nairobi, Kenya

- 1990-1995: Bachelors:** Bachelor of Veterinary Medicine, University of Nairobi, Kenya, Graduated as top student.  
**1988-1989: A-Levels:** Kenya Advanced Certificate of Education, Kianyaga Boys  
**1984-1987: O-Levels:** Kenya Certificate of Education, Chogoria Boys  
**1976-1983: Primary:** Certificate of Primary Education, Kiune Primary School

#### 4. AWARDS

- 21.10. 2006:** **Golden Recognition:** Best doctorate student and attaining “Best Note” grade ([www.giessen-server.de/beitrag256.html](http://www.giessen-server.de/beitrag256.html))  
**24.11. 1997:** **1. Gandhi Smarak Nidhi Trustee Fund Price:** Best overall veterinary student in the class of 1995 graduates  
**2. Novarties East Africa Price and Trophy:** Best clinical student in the class of 1995 graduates  
**21.10. 1996: Farmers choice Price and Trophy:** Best anatomy student in 1990  
**22.10. 1988: Board of Governors Price:** Best overall science student in 1988  
**22. 10.1988: Board of Governors Price:** Best biology student in 1988

#### 5. OTHER COURSES ATTENDED

- **LEGS Course**, Kingston Jamaica: 12<sup>th</sup>-17<sup>th</sup> May 2014: The Livestock Emergency Guidelines and Standards (LEGS): Training of Trainers (TOT)
- **One Health Central and East Africa** 24<sup>th</sup>-28<sup>th</sup> March Nakuru 2014: One Health In-Service Leadership Training
- **Kenya School of Government:** 25<sup>th</sup>-29<sup>th</sup> Nov 2013: Transformative Leadership Course:-  
Concept of Transformational Leadership, Strategic Thinking, Developing a Shared Vision for Organisations, Role Modelling, Coaching and Mentoring, Epithets of Inspirational Motivation, Managing & leading Change Culture change in transformational leadership, Effective leadership for performance improvement, Managing capital for organization transformation, Stewardship in leadership, Learning organization, Personal Branding, Good Corporate governance, Developing leadership commitment, Action planning
- **International Livestock Institute**, Nairobi: 2008-2011- Hands-on techniques on:- In-vitro Embryo Production, Embryo Transfer, Semen processing and Evaluation, genetic resource preservation and imports
- **Embrapa Institute**- Brazil: August- September 2009: International Course on Emerging Reproductive Technologies such as:- Ovum pick up (OPU), Ovarian Ultrasonography, Fetal sexing, international standard procedures on embryo evaluation, grading and trade
- **Cambridge University, UK:** October 2009: International Course on Animal Welfare, Ethics and Law course on:-Legislation and Laws on reproductive technologies, General Animal Welfare and Ethics
- **Justus Liebig University, Giessen** Germany: 2002-2005: Certificate on Cell-Cell Interactions in Reproduction covering courses on:-Reproductive Breeding Tools, Management of infertility in animals, Emerging Reproductive techniques, Sperm-oocyte interactions, Germplasm preservation and gene banking, Sperm Sexing,

Embryo production and Transfer, Semen Evaluation Techniques, Cell Culture, Laboratory Safety Procedures, Website designs and Uses, Animal Health Improvement Programs, Quality Management Systems, Laboratory animal use

- **2004:** Aventis-Sanofi (Frankfurt, Germany) Use of Animal Models for Drug Development
- **2004-2005:** Cell Biology Techniques. Institute for Anatomy and Cell biology, Faculty of Human Medicine, Marburg, Germany
- **2004-2005:** Computer Techniques and Statistic Package SPSS", HRZ, Giessen
- **2004-2005:** Techniques of Molecular biology, Graduate College 533 Cell-Cell-Interaction in Reproduction, Giessen, Germany
- **2004:** Medical Writing and Presentation, Graduate College 533 Cell-Cell Interaction in Reproduction, Justus-Liebig University, Germany
- **2003:** General Laboratory Safety and Handling of Toxic Agents, Hessen Safety Section, Germany
- **2003:** Professional Code of Ethics and Career Development, Giessen, Germany
- **2003:** Website Development and Uses in Scientific communication
- **2003:** Laboratory Procedures, Precautions, Ethics and General Workmanship

## 6. LEADERSHIP

- **2016-date: Director:** Wangari Mathai Institute of Peace and Environmental Studies, University of Nairobi
- **2016-date: Chairman:** Board of Management, Kiune Secondary School, Meru County
- **2015-date: Board member:** Board of Postgraduate Students, University of Nairobi
- **2015-2016: Coordinator:** Faculty of Veterinary Medicine student Projects and Attachment, University of Nairobi
- **2009-date: Coordinator:** UON-World Animal Protection Project on Disaster Management
- **2016-date: Vice Chairman:** Fortsmith Residents Water Project
- **2012-2016: Vice Chairman:** Upper Kabete Faculty Club, University of Nairobi
- **2009-2014: Academic Head of Section:** Veterinary Reproduction and Obstetrics, Clinical Studies Department, University of Nairobi
- **2013-2016: Intermittent Ag. Dean:** Faculty of Veterinary Medicine, University of Nairobi
- **2012-2013: Intermittent Ag. Chairman of Department:** Clinical Studies Department, University of Nairobi
- **2009: Chairman:** Development of Curriculum for Training in Embryo Transfer
- **2008-date: Patron:** Kiriti Youth Development Group
- **2008-2012: Faculty Representative:** IGAD Livestock Policy Development Initiative
- **2007-2010: Project Coordinator:** SIFET Project of Heifer International Project
- **2007 - 2012: Coordinator:** Department Clinical Case Presentation and Guest Lectures
- **2007 -2010:** Project Coordinator: UON Animal Welfare Project

- **2002-2009:** Chairman: South Imenti Youth Development Association
- **1997 -2002:** Coordinator: KSPCA Community Extension Service
- **1988-1989:** Laboratory Captain: Kianyaga Boys High School
- **1985-1987:** Class Representative: Chogoria Boys High School

## 7. PROJECTS

- 2010- 2016:** University of Nairobi-World Animal Protection Project on Disaster Management.
- 2010- 2016:** University of Nairobi-County Government of Meru Project Animal Breeding.
- 2007-2011:** University of Nairobi-ILRI-Heifer International Project on In-vitro embryo techniques for preservation of desired animal genetic resources in sub-Saharan Africa
- 2009:** University of Nairobi-Cambridge University Project on Disaster Animal Welfare.
- 2007- 2013:** University of Nairobi-Worldwide Veterinary Services UK (WVS) Project on Animal Welfare.
- 2006-2007:** University of Nairobi-Giessen University on common research activities.

## 8. WORKING EXPERIENCE

**2014 to date:** Associate Professor of Animal Reproduction, Faculty of Veterinary Medicine, University of Nairobi.

- 24<sup>th</sup> March 2014 -2018: Pre-qualified Peer Reviewer on Quality Assurance, for University Education
- 14<sup>th</sup> January 2014-2015: Team Member to Review National Veterinary Legislation
- 16<sup>th</sup> Dec 2013 to now: Appointed Biosafety Reviewer for National Biosafety Authority
- 21<sup>st</sup> March 2013- Now: Member, Faculty Research and Grants Committee
- 2013 to Now: In-charge, Faculty Student Attachment Placement and Supervision
- 2012: In-charge UoN Embryo Production Lab Setup
- 2009 – 2014: Academic Head of Animal Reproduction Section
- 2009-2014: Senior Lecturer of Animal reproduction- Faculty of Veterinary Medicine, University of Nairobi
- 2008-2011: Visiting Scientist- International Livestock Research Institute
- 2000-2009: Lecturer- University of Nairobi
- 2006-2007: Postdoc Position – Justus Liebig University- Germany
- 2003- 2006: Doctorate Position – Justus Liebig University- Germany
- 1995-2000: Assistant Lecturer- University of Nairobi
- 1993: Mathematics & Chemistry Teacher- St. Mary Girls Igoji

## 9. PERSONAL ACHIEVEMENTS

**As the Academic Head of Veterinary Reproduction in the University of Nairobi:**

- -effectively run day-day activities of the Academic Section managing the human and capital resources

- -oversaw teaching of reproduction curriculum for 3<sup>rd</sup> -5<sup>th</sup> veterinary students.
- -championed the establishment of an in-vitro embryo production laboratory which is now one of the Vision 2030 Flagship Project of the University of Nairobi.
- -in charge of curriculum reviews, quality assurance and teaching of the Section
- -established collaborative networks with regional Universities and international institutions like Giessen, WSPA, AWAKE, EASETA and WVS etc.
- -oversaw Curriculum reviews and development in new masters programs

**As Senior Lecturer – University of Nairobi-Veterinary Reproduction:**

- -involved in training, clinical duties, research and community service in the fields of animal Reproductive Technologies such as Embryo transfer, in-vitro embryo production and transfer, superovulation, estrous synchronization, sperm sexing, cryopreservation of genetic resources
- -involved in student mentorship
- -established research collaborative networks with ILRI, WSPA, Royal Veterinary College, and Cambridge University etc.
- -supervised 5 PhD students and 11 masters students
- -attracted project grants funds within the University of Nairobi
- -published over 50 research articles in referred journals
- -Served as internal and external examiner
- -involved in national and international duties

**As Scientist in the field of Animal reproduction:**

- -conducted research that produced the first "test tube calf" Calf in Kenya in 2009
- -attracted research grants from Heifer international to set up an in-vitro embryo production laboratory.in ILRI that trained 3 technical staff and 3 master students in the field of laboratory techniques of in-vitro embryo production.
- -wrote grants that attracted donor funding
- -engaged in grant personnel, financial & material and technical management of the donor funded projects
- -planned and coordinated local, regional and international training activities in in-vitro embryo production to have 57 staff trained in the fields of embryo transfer, ovum pick up, in-vitro embryo production, genetic resource preservation and fetal sexing techniques
- -organized training workshops on reproductive technologies for East African Stakeholders
- -involved in quality assessment of semen imported into the country and for Gichea Farm in Kiambu
- -spearheaded development of policy guidelines for national embryo transfer training and practice
- -developed National curriculum for Embryo transfer training and artificial insemination
- -coordinated laboratory activities and human resources in ILRI and University of Nairobi
- -actively participated in national livestock development activities such establishing links with stakeholders, presentation of research findings to farmers and transferring technology to stakeholders.
- -participated in planning and production of related manpower needed by the various livestock based industries e.g. inseminators for farmers, embryo transfer practitioners etc



- **As Coordinator of Disaster Management and Animal Welfare Projects:**
- -coordinated activities and managing human and capital resource for the project
- -started community Extension Services for control of rabies and stray dog population within the slum areas of Nairobi
- -involved in training, teaching and research on Animal Disaster Management
- -conducted Field Days, Demonstrations and practical drills
- -developed Training Modules for stakeholders on Animal Disaster Management
- -responded to national disasters especially during post-election violence, Tana River clashes, Drought in Mwingi and Sinai fire outbreak etc
- -attended various training workshops on disaster management and veterinary emergency response.
- -engages with other stakeholders within the National Disaster Management and Risk Reduction arena
- -engages in Personnel, Financial, Material and technical Management of the donor funded projects.
- -established FAO-Faculty of Nairobi LEGS training collaboration network

## 10. SCHOLARLY ACHIEVEMENTS

### 2016

1. **Mutembei H.M.**, Origa R., Agumbah G.J.O. (2016). An In-Vitro Criterion for Comparative Assessment for Fertility Characteristics of Bull Semen in Kenya. *Journal of Agricultural Sciences and Food Technology* 2(6) 100 -104
2. Kipyegon A.N., **H.M., Mutembei**, V.T. Tsuma, J.A., 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. *Journal of Agriculture and Veterinary Science (IOSR-JAVS)* 9(8) 59-61
3. Okell CN, Mutembei HM et al., "[Anthelmintic administration to small ruminants in emergency drought responses:](#)" *Journal of Tropical Animal Health and Production* 48: 493-500.
4. Mutembei HM, Mulei CM, Mbithi PMF. "[A kenyan economic analysis of utilization of ovum pick up, invitro embryo production and embryo transfer technologies in Kenya.](#)" *Inter J Vet Sci* 5(2): 64-68.

### 2015

3. DN Makau, Mutembei HM, etal., "[Assessment of fecal parasitism for decision making in continued deworming of slum stray dogs in nairobi areas of Kenya.](#)" *J V Med and Anim Health* 7(11):328-330.
4. Mutembei HM, T Wangare, J Kimaru, Mulei CM, Mbithi PMF. "[Benefits of Entrenching Animal Disaster Management and Livestock Emergency Guidelines Standards \(LEGS\) Courses into the Veterinary Curriculum: Case study of the University of Nairobi, Kenya.](#)" *JASFT*. 2015;1(7):101-106.
5. Mutembei HM, Tsuma VT, Muraya J, Mutiga ER. "[Bovine in-vitro Embryo Production and its contribution towards improved food security in Kenya.](#)" *ajfand*. 2015;15(1):9722-9743.
6. Muraya J, Mutembei HM, Tsuma VT, Mutiga ER. "[Characterization of follicular dynamics in the Kenyan Boran Cow.](#)" *Inter J Vet Sci*. 2015;4(4):206-210.

7. Lawrence FG, HM Mutembei et al.,. "Constraints to use of breeding services in Kenya." *Inter J Vet Sci.* 2015;4(4):211-215.
8. Lawrence FG, Mutembei H, Job Lagat, John Mburu OM. "A cost-benefit analysis of usage of sexed invitro fertilization embryo transfer in Kenya." *Journal of Agricultural Science and Food Technology.* 2015;1(4):53-58.
9. Muasa BS, Mutembei HM Carmargo LS, Viana JHM. "Effect of Follicle Size of Boran Cows on Glucose 6 Phosphate Dehydrogenase Activity and Developmental Competence." *Inter J Vet Sci.* 2015;4(4):161-165.
10. Mutembei HM, Tsuma VT, Muasia B, Muraya J. "Manual on Technical aspects of Bovine in-vitro embryo production and embryo transfer." *The Kenya Veterinarian Journal.* 2015;39(1):1-16.
11. Mutembei HM, Cook EA Mulei CM, Muraya J. "A One-Health Approach to Control the Incidence of Rabies in the Slums of Nairobi." *Journal of Medical and Biological Science Research.* 2015;1(9):130-133.
12. Nakami W, Mutembei HM Okell Claire, Githigia SM. "Prevalence of Gastrointestinal Parasites of Sheep and Goats in the Fora and Mona Populations during Drought Mitigation in Marsabit County of Kenya." *Journal of Agricultural Science and Food Technology.* 2015;1(6):84-87.
13. Ndeke AN, Mutembei HM, Tsuma VT, Mutiga ER. "Reproductive performance of the Galla and Toggenburg goats and their crosses in Mwingi sub-county of Kenya." *Journal of Agricultural Science and Food Technology.* 2015;1(6):78-83.
14. Mutembei HM, Mulei CM, Mbithi PMF. "Restoring community Livelihoods and Food Security through Livestock Asset during Drought Disasters: Case study of Mwingi, Kenya." *Ajfan.* 2015;15(3):10047-10059.

#### **2014**

15. Frances A, et al. "One Health- the WSPA Approach.". 2014.

#### **2013**

16. World for protection of Animals WS. *Case Study: Drought in Kenya Safeguarding Livestock and livelihoods.*; 2013.
17. knowles T, Mutembei HM. *cost-benefit analysis of WSPA's Mwingi Intervention in Kenya.*; 2013.

#### **2012**

18. Kipyegon AN, Mutembei HM TVTT. " Effects of Ripe Carica Papaya Seed Powder on Testicular Histology of Boars." *international journal of veterinary science.* 2012;1(1):1-4.
19. Mutembei HM;, Mulei CM. "*Combating Animal disaster through Veterinary response unit. A University of Nairobi initiative. 8th Biennial Scientific Conference and 46th Kenya Veterinary*

*Association Annual Scientific Conference. Held on 25-27 April, 2012, at Safari Park Hotel, Nairobi.*;

2012.

20. Aleri JW, Mutembei HM MCMGJWMSM2012. "A retrospective study of reproductive conditions in bitches in Nairobi." *KVA*. 2012;34:29-31.

#### **2011**

22. Mutembei, HM; Camargo; Viana JHM; Muasa B; Tsuma VT; Origa RA; Camargo; Viana, Okeyo AM. *In vitro embryo production using Boran (Bos indicus) oocytes in Kenya.*; 2011.

23. Muraya J; Aleri JW; Mutembei. MH; Mulei CM. "*Rabies And Population Control Of Stray Dogs And Cats In Nairobi Slums. Wvs-csd Initiative (2011).*"; 2011.

#### **2010**

24. Aleri JW; Mutembei HK; Mulei CM; Mbugua SM; Gakombe JW. "*Retrospective Study On Canine Infertility In Nairobi And Its Environs (2010).*"; 2010.

25. Hoffmann B, Rostalski A, Mutembei HM, Goericke-Pesch S. "Testicular steroid hormone secretion in the boar and expression of testicular and epididymal steroid sulphatase and estrogen sulphotransferase activity."

#### **2009**

26. Fridah L;G, Isabelle B; Job L; John M; Henry M; Joshua A;O, Okeyo AM. "*A cost-benefit analysis of seced in-vitro fertilization embryo transfer in Kenya.*"; 2009.

27. Mutembei Et al., "*Testicular Steroid hormone Expression and Activity of Steroid Sulphatase in the Boar Testis.*". In: *Reprod Dom Anim* 44, 17.; 2009.

#### **2008**

28. Mutembei HM, Mutiga ER, Tsuma VT. "A Retrospective study on Reproductive Parameters of dogs. *J South African Vet Ass* 71(2): 115-117." 2008.

29. Mutembei et al., "*Canine prostaglandin E2 synthase (PGES) and its receptors (EP2 and EP4): Expression in the corpus luteum during dioestrus.*". In: *Animal Reproduction Science* 109 (2008) 319. Elsevier; 2008.

#### **2006**

30. HM Mutembei, S Pesch, M Kowalewski, G Schuler, B Ugele, W Song and B Hoffmann 2006: "*Expression of Estrogen sulfotransferase in the testis of Immature and Mature boars.**Reprod Dom Animal* 41 (Suppl.1): 24." In: *Animal Reproduction Science* 109 (2008) 319.

31. MP Kowalewski, HM Mutembei, B Hoffmann 2006: "*Expression of Prostaglandin synthetase in the corpus luteum of the dog.**Reprod Dom Animal* 41 (Suppli.1): 21." In: *Animal Reproduction Science* 109 (2008) 319.

32. Mutembei HM 2006: "*A Book on Estrogens and the Boar Testis: Expression of estrogen receptors  $\alpha$  and  $\beta$ , aromatase, steroid sulfatase and of estrogen sulfotransferase in the testes of*

*immature and mature boars. ISBN 3-8359-5079-7*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2006.

#### **2005**

33. HENRY DRM&#39;IKIUGUMUTEMBEI. "*HM Mutembei, MP Kowalewski, B Hoffmann 2005: Sus scrofa steroid sulfatase mRNA partial CDs. A Gene Bank Submission, Accession number DQ139314*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2005.

34. *HM Mutembei, S Pesch, G Schuler, B Hoffmann 2005: Expression of estrogen receptors (ER $\alpha$  and ER $\beta$ ) and of aromatase in the testis of immature and mature boars. Reprod Dom Anim 40: 228-236*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2005.

35. *Mutembei HM, Pesch S, Schuler G, Hoffmann B 2005: Role of estrogen in the boar testis as deduced from the expression of estrogen receptors and cytochrome P450 aromatase. Andrologia 37 (4): 146-147*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2005.

36. *Mutembei HM, Pesch S, Schuler G, Ugele B, Rex-Haffner M, Hoffmann B 2005: Expression of steroid sulfatase in immature and mature boar testis. Schweizer Archiv f.*" In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2005.

#### **2004**

37. *HM Mutembei, S Pesch, G Schuler, B Hoffmann 2004: Expression of estrogen receptors and of aromatase in the boar testis demonstrates a paracrine, autocrine and/intracrine regulatory role of estrogen. 5th International Congress on Animal Endocrinology, 2004*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2004.

38. *HM Mutembei, S Pesch, G Schuler, B Hoffmann B (2004). Expression of estrogen receptor beta in the boar testis. Vet. Med. Austria/ Wien. Tier*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2004.

39. *Mutembei HM, Pesch S, Schuler G, Hoffmann B 2004: Expression of estrogen receptor alpha in the boar testis. 15th International Congress on Animal Reproduction, 2004, Porto Seguro, Brazil, Abstracts Vol. 1: 157*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2004.

#### **2002**

40. *HM Mutembei, ER Mutiga, VT Tsuma 2002: An epidemiological survey demonstrating decline in reproductive efficiency with age and non-seasonality of reproductive parameters in Germany shepherds bitches in Kenya. J South African Vet Ass 73 (1): 36-37*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2002.

#### **2000**

41. *HM Mutembei, ER Mutiga, VT Tsuma 2000: A Retrospective study on Reproductive Parameters of dogs. J South African Vet Ass 71(2): 115-117*". In: *Animal Reproduction Science 109 (2008)* 319. Elsevier; 2000.

#### **Web based Publication Content**

42. **Mutembei HM 2012: WSPA Intervention Report in Mwingi Kenya.**  
[https://issuu.com/wspacanada/wspa\\_news\\_fallwinter2012\\_onlineversion\\_issu](https://issuu.com/wspacanada/wspa_news_fallwinter2012_onlineversion_issu)

43. **Mutembei HM 2012:** WSPA Post Intervention Report: Mutembei-news-2012.pdf:  
[https://www.worldanimalprotection.dk/wspa\\_news](https://www.worldanimalprotection.dk/wspa_news)

44. WSPA Global Review 2011:  
[https://www.issuu.com/docs/wspa\\_usa\\_global\\_review\\_winsert\\_final](https://www.issuu.com/docs/wspa_usa_global_review_winsert_final)

45. **Mutembei HM 2009:** Test tube calves and farm research.  
<http://www.meattradenewsdaily.co.uk/news/110509/Kenya/> ..

## 11. SCIENTIFIC RESPONSIBILITIES

- Reviewer of scientific articles for Journal of Andrology and Endocrinology
- Reviewer of scientific articles for African Journal of Pharmacy and Pharmacology
- Reviewer of scientific articles for Kenya Veterinarian Journal

## 12. POSTGRADUATE SUPERVISION

### a) PhD Students

#### 1) Dr Claire Okell

**Title:** Measuring the impact of animal health interventions in drought responses in Kenya. Veterinary Epidemiology, Economics and Public Health, The Royal Veterinary College, UK

#### 2.) Dr Kios David

**Title:** Factors affecting the quantity and quality of harvested (flushed) cattle embryos in Kenya. University of Nairobi- Department of Clinical Studies

#### 3.) Dr Kipyegon Ambrose Ng'eno

**Title:** Effects of Endocrine Disrupting Compounds contained in Water effluents on male reproduction. University of Nairobi- Department of Clinical Studies

### b) Masters students Co-supervision

#### 1.) Dr Cook Annie Jesse

**Title:** Community awareness and understanding of rabies in Nairobi Kenya, London School of Veterinary Tropical Medicine and Public Health

#### 2.) Miss Lawrence Fridah Gacheri

**Title:** Evaluation of economics of utilization of Sexed Cattle Embryos in Kenya. Egerton University

#### 3.) Dr Bridgit Syombua Muasa

**Title:** The effect of follicle size and grade of cumulus oocytes complex on oocyte competence and in vitro development for the Boran Cattle. University of Nairobi, Department of Clinical Studies

#### 4.) Dr Kipyegon Ng'eno

**Title:** Evaluation of effects of papaya seed extract on fertility of the boar. University of Nairobi, Department of Clinical studies

#### 5.) Dr Nambiri M. Lameck

**Title:** Comparison of doe performance of the domestic rabbit. University of Nairobi, Department of Animal Production

#### 6.) Dr Muraya Joan

**Title:** Follicular and luteal dynamics in the Kenyan Boran. University of Nairobi- Department of Clinical Studies

#### 7.) Dr Origa Ruth Akinyi

**Title:** Assessment and comparison of bull semen fertility based on in vivo (non-return rate 60-90 days post insemination) and in vitro (cleavage and blastocyst rates) Criteria. University of Nairobi, Department of Clinical Studies

**8.) Dr Ndeke Ann**

**Title:** Evaluation of Reproductive Performance of the Toggenburg Goat in Kenya as a Measure of Adaptability. University of Nairobi- Department of Clinical Studies

**9.) Dr Mutuku James**

**Title:** Evaluation of reproductive performance of dairy cows in smallholder set up systems of zero grazing units. University of Nairobi- Department of Clinical Studies

**10.) Dr Paul Okoth Juma**

**Title:** Effects of extenders and seminal plasma on quality of stored buck semen. University of Nairobi- Department of Clinical Studies

### 13. COMMUNITY PROFESSIONAL SERVICE

**2016: Team member;** World Animal Protection – Ethioian Redcross Society Response Team in Afar Region on Drought disaster.

**2015: Coordinator;** UON-World Animal Protection El nino Response in Baringo County.

**2011: Coordinator;** UON Veterinary Response Team against Drought in Mwingi.

**2013: Coordinator;** UON Veterinary Response team in Tana River.

**22<sup>nd</sup>.6 -3<sup>rd</sup>.7. 2009: Coordinator;** Rabies and Population Control Program in Slum areas of Nairobi. Team comprised the University of Nairobi, ANAW, government vets and Worldwide Veterinary Services in United Kingdom.

**22<sup>nd</sup>.9 -2<sup>nd</sup>.10. 2008: Coordinator;** Rabies and Population Control Program in Slum areas of Nairobi. Team comprised the University of Nairobi, ANAW, government vets and Worldwide Veterinary Services in United Kingdom.

**19<sup>TH</sup> -30<sup>TH</sup> Jan 2007: Coordinator;** Team provided free veterinary resource to animals of the Internally Displaced Persons (IDPs) in rescue and/or resettlement camps as part of a team comprising the University of Nairobi, ANAW, government vets and Worldwide Veterinary Services in United Kingdom.

### 14. WORKSHOPS AND MEETINGS

- 2015:** Onehealth Workshop in Kampala, Uganda
- Annually:** Kenya Veterinary Association Scientific Workshops and General Meetings
- 14.09.2013:** Onehealth Workshop in Addis Ababa, Ethiopia
- 28.08.08:** Development of Curriculum for Training in Embryo Transfer Technology, KVB, Nairobi
- 22-24.07.08:** Development of Guidelines of Embryo Transfer Practice and Training in Kenya. KARI Resource Centre, Nairobi
- 08-11.07.08:** Embryo Transfer International Stakeholders Workshop on Use of Reproductive Technologies to accelerate delivery of appropriate cattle genetics in eastern Africa. Kapiti Ranch, Machakos
- 09-11.07.08:** Embryo Transfer Stakeholders Brainstorming Workshop on Guidelines for Embryo Transfer Practice and Training in Kenya. KARI headquarters, Nairobi

- 25-30.11.07:** Curriculum Design and Development for UON Clinical Studies Postgraduate Programs and WSPA Animal Welfare for Undergraduate Students. Wildlife Training Institute, Naivasha
- 24-28.05:** Histopathological Evaluation of the Testis. Annual Institutional Workshop, Giessen, Germany
- 2003-2005:** Cell-Cell Interaction Journal Club Seminars, Centre for Andrology, Marburg, Germany
- 17-20.7.04:** European Association of Veterinary Anatomist (EAVA) Workshop on Cell Culture, Giessen, Germany
- 6-7.04.04:** Small Animal Practice and its Challenges. Embu des Artes, Sao Paulo, Brazil
- 08.04** 4<sup>th</sup> Symposium on Small Animal Reproduction, Embu des Artes, Sao Paulo, Brazil
- 11.04** 8th Andrology and 4th Congress of the Graduate Seminar Cell-Cell Interaction in Reproduction, Giessen, Germany
- 2004** Drug Development Procedures, Sanofi Aventis, Frankfurt-Hochst and Bayer AG Wuppertal, Germany
- 11.03:** 7th Andrology and 3rd Congress of Reproduction, Marburg, Germany
- 1992:** Zero Grazing Workshop, Embu
- 2000:** 2nd Biennial Faculty Scientific Conference, Kabete Campus, Nairobi
- 2000:** Community Empowerment through Participatory Projects
- 1999:** Continuing Education on the role of Veterinarian in Wildlife Conservation
- 1998:** Income Generation Symposium, Clinical Studies Department, Nairobi
- 1997;** Continuation Veterinary Education Workshop, Clinical Studies, Nairobi
- 1995 –Present:** Kenya Veterinary Association Annual General Meetings
- 1993:** Science Congress Judges Training Workshop, Meru School

## 15. ABSTRACTS IN CONFERENCES

- 2008:** Delivery of appropriate cattle genotypes to Eastern African smallholder farmers through in-vitro embryo production technologies- the technical procedures, prospects and challenges. PACN Biodiversity Conference, Nairobi, 10<sup>th</sup>-12<sup>th</sup> Sept.
- 2008:** 6<sup>th</sup> Biennial Scientific Conference, Kabete, 17<sup>th</sup>-19<sup>th</sup> Sept.
- 2007:** Expression of Steroid Sulfatase in Boar Testis. 40th Yearly Congress of Physiology and Pathology of Reproduction in Veterinary and Human Medicine, Berlin, Germany
- 2006:** Expression of Estrogen Sulfotransferase in Boar Testis. 39th Yearly Congress of Physiology and Pathology of Reproduction in Veterinary and Human Medicine, Hannover, Germany
- 2005:** Expression of P450 Aromatase in the Boar Testis. 38th Yearly Congress of Physiology and Pathology of Reproduction in Veterinary and Human Medicine, Zurich, Switzerland
- 2005:** Roles of Estrogen Sulfotransferase and Steroid Sulfatase in Regulation of Testicular Functions. 2<sup>nd</sup> Faculty PhD-Symposium, Auditorium of Hygiene and Environment, Faculty of Human Medicine, Giessen
- 2005:** Staging of Spermatogenesis. Clinical Studies, Nairobi
- 2005:** Role of Estrogens in the Autocrine and perineurine regulation of the Testis. 1<sup>st</sup>

- Faculty PhD-Symposium, Auditorium of Hygiene and Environment,  
Faculty of Human Medicine, Giessen, Germany
- 2004:** Roles of Estrogens in the Boar Testis as Deduced from Expression of their receptors and of Aromatase. 8th Andrology and 4th Congress of the Graduate Seminar Cell-Cell Interaction in Reproduction, Giessen, Germany
- 2004:** Estrogenic Regulation of Testicular Function in the Boar. Clinical Studies Department, Nairobi
- 2004:** Expression of Estrogen Receptors  $\alpha$  and  $\beta$  in the Boar Testis. Annual Research Dissemination for VFFV, Giessen
- 2004:** Role of Estrogens in the Boar Testis. 37th Yearly Congress of Physiology and Pathology of Reproduction in Veterinary and Human Medicine, München, Germany
- 2004:** Expression of Oestrogen Receptor  $\beta$  in the Boar Testis. 15<sup>th</sup> International congress for animal reproduction (ICAR), Porto Seguro, Brazil
- 2004:** Expression of Oestrogen Receptor  $\alpha$  in the Boar Testis. 5<sup>th</sup> International Congress on Farm Animal Endocrinology (ICAE), Budapest, Hungary)
- 2004:** The Role of Estrogens in the Boar Testis. 37th Yearly Congress of Physiology and Pathology of Reproduction in Veterinary and Human Medicine, München, Germany
- 2004:** Implantation and Placentation. Annual Institutional Workshop, Giessen, Germany
- 1998:** Parameters of GSD Bitches in Kenya. 1<sup>st</sup> Biennial Faculty Scientific Conference, Kabete Campus, Nairobi

## 16. PROFESSIONAL MEMBERSHIP

- 1995 –Present:** Member East African Embryo Transfer Association
- 1995-Present:** 1. Member Kenya Veterinary Board (KVB)  
2. Member Kenya Veterinary Association (KVA)
- 2003-2006** Member, Cell-Cell Interaction in Reproduction Graduate Seminar 533
- 1990 – 1995** Member Veterinary Student Association (VSA)
- 1983 – 1989** 1. Member 4K- Club 2. Member Young Farmers club

## 17. HOBBIES

Training, Research, Conservation of animal resources, Adventuring, Sports and Games

## 18. REFEREES

**Prof. Peter Mbithi**, Vice Chancellor and Professor of Veterinary Surgery, University of Nairobi. E-mail: [pmbithi@uinbi.ac.ke](mailto:pmbithi@uinbi.ac.ke) Tel: 0721214713

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