

CURRICULUM VITAE

SURNAME: MUGWERU

OTHERS: JACKSON

DATE OF BIRTH: 5/3/1965

NATIONALITY: KENYAN

RELIGION: CHRISTIAN

MARITAL STATUS: MARRIED

EDUCATIONAL BACKGROUND

<u>INSTITUTION</u>	<u>YEAR</u>	<u>ACADEMIC QUALIFICATION</u>
1.MAGUTU-INI PRI.SCH.	1972-1978	C.P.E
2.KIKUYU DAY HIGH SCH.	1979-1982	K.C.E
3.GARBA TULA HIGH.SCH.	1983-1984	K.A.C.E
4.KENYA POLYTECHNIC APPLIED BIOLOGY	1986-1990	DIPLOMA
5.KENYA POLYTECHNIC .APPLIED BIOLOGY	1990-1991	HND
6.T.U.K	2010- 2012	Bpil.Biotech

OTHER CERTIFICATES

1. Certificate in shell free embryo culture, cell culture and tumor engrafting technnics-2015
Certificate in management training for technical staff-2015
Certificate of membership of Karai children's vocational center and foundation (K C.V.C.F)
2. Certificate on seminar on alternative use of animals in education and training-2009
3. Certificate on pharmacogenetics of drug metabolism-2009
4. Certificate on physiology teaching workshop-July 2008
5. Certificate of participation in the 5th international congress of the African association of physiological sciences- 2008
6. Certificate on good laboratory practices(glp)-2007
7. Certificate on advance training in practical hemostasis and platelet aggregometry-2006

8. Certificate for workshop attendance in laboratory animal science-2006
9. Certificate for workshop attendance in veterinary and comparative pathology- 2007
10. Certificate for workshop attendance in reptile care, health and welfare
11. Certificate for attendance of neuroscience symposium -2002
12. Certificate for molecular biology technics- 1996
13. Certificate for training in laboratory animal science-2007
14. Certificate on laboratory technics at university of bonn-1997
15. Certificate on molecular biology technics at institute fur molecular Biologist diagnostic - 1997
16. Certificate on training in Elisa ,monoclonal and poly clonal antibody production Fom immunized chicken eggs at university of bonn-1997
17. Certificate for workshop attendance on diabetes awareness and screening-2015
18. Certificate of recognition as best senior technologist in the faculty of veterinary medicine
19. Certificate for membership of Karai children's vocational center foundation-2016

EMPLOYMENT RECORD

<u>INSTITUTE</u>	<u>YEAR</u>	<u>DESIGNATION</u>
Muhu secondary school	1986	untrained teacher
Karai day secondary sch.	1988	untrained teacher
KARI Muguga (NVRD)	1988/1989	Trainee technologist
University of Nairobi	1990-1991	Technologist ABC Vet. Anatomy Dept.
University of Nairobi	1992- 1997	Technologist ABC Animal physiology
University of Nairobi	1997-2009	Snr. Technologist DEF -DVAP.
University of Nairobi	2008- 2018	chief technologist-DVAP.
University of Nairobi	2018-date	Principal Technologist-DVAP.

ADMINISTRATIVE EXPERIENCE

- Supervision and training of the technical and support staff in the department.
- Preparation of annual procurement plan for department
- Supervise and guide technical staff in preparation and performance in undergraduate practical and demonstrations

- Setting up standards activities and procedures in the department to maintain high position on ISO platform.
- Procurement of materials for the departmental teaching, consultancy and research activities
- Maintenance of departmental equipment and facilities

CONSULTANCY DUTIES

1. Analysis of steroid hormones, growth promoters in bovine urine and serum for the ministry of livestock since 1996
2. Training of physiology practical to student from EGERTON UNIVERSITY, Kabete National Polytechnic Thika technical institute and Jomo Kenyatta university
3. Toxicological studies on wood preservative PERMACURE OXIDE LIQOUR
4. Toxicological studies on pesticide-UXIMAX
- 5 Toxicological studies on pesticide –FOLY 300SC
6. Toxicological studies on pesticide-ABAMEX
7. Toxicological studies on pesticide-POTPHOS PLUS 507SL
8. Toxicological studies on pesticide-TICKSTOP 55EC
9. Toxicological studies on pesticide-PARAGON 10GR
10. Toxicological studies on pesticide -ATTRACT 100WDG-
11. Toxicological studies on Ricinus Communis (caster oil plant) growing wildly at the Suswa planes NAIVASHA –contracted by Kengen Ltd
12. Preparation of animal (bovine dog and a sheep etc) skeletons for various institutions of higher learning teaching animal sciences

SPECIAL ACHIVEMENTS

Honored with recognition as the best senior technologist in the faculty of veterinary medicine - 2006.

COMMITTEES SERVED

1. U.o.n –committee on coding of scientific materials for e-procurement

2. 6th biennial conference and exhibition organizing committee
3. DVAP-income generating committee
4. CBPS health and safety committee
5. CAVS waste management committee
6. CAVS Bvm re-inspection committee
7. DVAP –committee on consultancies and other income generation activities
8. DVAP -acceptance and inspection committee
9. CAVS –complaints handling committee
10. CBPS-committee on commonly used items

WORKSHOPS/SEMINARS ATTENDED

1. Natural products Research and Drug Development (NAPRECA-1996).
2. IBRO workshop- at ICIPE Kasarani.
3. KSN –neuroscience symposium-2002.
4. Glass blowing and use of glassware-2003.
5. CBPS sciencepark-2004.
6. KASP*(IASP)-pain management-2006.
7. Laboratory animal science-2006.
8. Practical Homeostasis and platelet aggregometry-2006.
9. Laboratory animal science -2007.
10. Good Laboratory Practice-GLP-2007 Veterinary and comparative pathology-2007.
11. Reptile Care, Health and welfare.
12. Africa Association of Physiological science
13. 6th biennial conference and exhibition.
14. Shell free embryo culture, cell culture and tumor engrafting techniques-2015.
15. Alternative use of animals in education and training-2009.

16. Stake holder's workshop on leather technology curriculum development.
17. Stake holders workshop on natural products research and drug development.
18. Riseaffnet workshop on research data presentation by scientists and Riseaffnet sponsored students.
19. Wangari Mathaai Institute for peace and environmental studies inauguration workshop at GMB.
20. CBPS –workshop on safety, first aid and fire fighting methods.

Exhibitions attended

1. 4th Universities exhibition at KICC on 15th -18th march 2006.
2. Exhibited for DVAP at Kenya Head teacher association meeting at Kasarani -2006.
3. 5th biennial scientific conference held at CAVS -2006.
4. 6th biennial scientific conference held at CAVS-2008.
5. 1991- I exhibited for Department of Veterinary anatomy at the Nairobi international trade fair at Jamuhuri Park.

Research assistance/acknowledgement

1. Effects of *Syzygium guineense* on STZ induced diabetic rats .(Bsc.Biochemistry student assistance -2007)
2. Antagonistic effects of Thyroxin and Actinomycin D on enzymatic activity in rats.(BSc. Biochemistry student assistance -2007)
3. Electro cardiac changes in exercising rats on anabolic steroids (AAS) administration.(Bsc.medical physiology student assistance -2008)
4. Phytochemistry and antimicrobial screening of stem bark of *Techlea noblis* and *Techlea simicifolia*(Msc : chemistry student)2007-2008

Evaluation of pain alleviating anti-inflammatory and anti-rheumatoid properties of selected medicinal plants Ph.D student

5. Species identification ,quality and authenticity of row meat from commercial outlets in Nairobi using cytochrome b sequence -2008
 6. comparative studies on the antidepressant ,analgesic and Anti-inflammatory effects of modia whytei root extract ,dopamine and Flouxetine in mice (PhD- medical physiology student-2007)
 7. The analgesic activity of ethanol ,chroloform and chroloform /ethanaol extracts os Ocimum Kilmdischarium roots 2009
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8. Determination of respiratory microphage phagocytic capacity in response to polystyrene particals msc student
 9. Effectst of maternal alcohol intake and nutrients defficiencies on the pancreas of albino rat (rattus novergicus)pups Phd student
 10. Antinociceptive activities of the ethanolic extracts of Ocimum kilimandscharicum baker ex gürke and Ocimum kenyense Ayob. Ex AJ paton leaves

PW Mwangi, S Wambugu, DK Kariuki... - International J ..., 2012 - academia.edu

11. Phytochemical and analgesic evaluation of Mondia whytei (hook. f) root

TI Kanui, CG Githinji, PM Mbugua, DK Kariuki - 2011 - 41.89.55.71

Acetic acid induced writhing test in mice was used to screen M. whytei for antinociceptive activity. (Taber, 1974) ... Dr. Abuga, Mr. kinyungu and Mugweru for their technical support

12. Suppression of nociception by Ocimum masaiense root extract involves both central and peripheral mechanisms

PW Mwangi, SN Wambugu, DK Kariuki, P Mungai... - ..., 2011 - inforesights.com

13. . A Kenyan perspective on the use of animals in science education and scientific research in Africa and prospects for improvement

C Kimwele, D Matheka, H Ferdowsian

14. NA species surveillance: Monitoring bush meat poaching and trading in Kenya using partial cytochrome b gene

C. N. Kimwele, B. K Karisa, M. Stokes, J. O. Junga, O. Hanotte, R. A. Skilton, D. McElroy

15. Skin shedding and tissue regeneration in African spiny mice (*Acomys*)

Ashley W. Seifert, Stephen G. Kiama, Megan G. Seifert, Jacob R. Goheen, Todd M. Palmer & Malcolm Maden

Publications

1. .Pharmacological evidence for the folk use of Nefang: antipyretic, anti-inflammatory and antinociceptive activities of its constituent plants

PA Tarkang, FA Okalebo, JD Siminyu, WN Ngugi, J.Mugweru AM Mwaura, ...
BMC complementary and alternative medicine 15 (1), 1746-2015

2. In vitro production of testosterone and plasma levels of luteinising hormone, testosterone and cortisol in male rats treated with heptachlor

EO Wango, DW Onyango, H Odongo, E Okindo, J Mugweru
Comparative Biochemistry and Physiology Part C: Pharmacology, Toxicology and ...
1997

3. .Screening for biological activity of *Solanum incanum* and *Conyza sumatresnsis* using the isolated rabbit intestine

M Mathiu, PM Mbugua, J Mugweru
Kenya Veterinarian 29 (1), 29-3242005

4. 4.Synergistic bio-pesticide combination of pyrethrins and rotenoids for the control of the cockroach *Americana periplaneta*

DK Kariuki, SN Njiru, JO Miaron, DN Kariuki, J Mugweru
International Journal of Humanities 2 (3), 43-48320

5. Antibacterial activity of five medicinal plant extracts used by the Maasai people of Kenya

DK Kariuki, JO Miaron, J Mugweru, LO Kerubo
Int. J. Hum. Arts Med. Sci 2 (7), 1-63 2014

6. Synergistic Effects of α -Cypermethrin and Dimethoate against Insect Pests

DK Kariuki, JO Miaron, AK Kuria, J Mugweru, A Mwaura
East and Central African Journal of Pharmaceutical Sciences 6 (3), 64-681 2003

7. Effects Of Heptachlor On Rat Plasma LH, Testosterone And Cortisol Levels, And Testicular Structure.

DW Onyango, EO Wango, H Odongo, J Mugweru, E Okindo 1998

SCIENTIFIC POSTER

Improved method for shell free culture of chick embryos and chorioallantoic membranes (CAM) for cancer study and drug testing.

Membership to boards

- Member of the Kenya association for study of pain
- Diabetes society of Kenya
- Member of karai children vocational center foundation

Extra curricular activities

- Farming
 - Parenting and mentoring
 - Communal activities –diabetes screening, among communities in Kiambu and Nairobi counties
- “Other communal cultural activities”

Referees

1. Prof.A.N Makanya
Department of Veterinary Anatomy and Physiology
2. Prof.G.E.O Owiti
Department of Veterinary Anatomy and Physiology
3. Dr.P.M Mbugua
Department of Medical Physiology
4. Prof.D.K.Kariuki
Department of Chemistry
5. Prof.P.M Mathiu
Department of Veterinary Anatomy and Physiology

