

CURRICULUM VITAE

PERSONAL DETAILS

Mbaabu Mathiu

Associate Professor

Environmental Physiology & Ethno medicine
Coordinator, Centre for Natural Products and Bio prospecting (CENBIO)
Department of Veterinary Anatomy and Physiology
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Profile

An Environmental Veterinarian with vast experience in livestock health, production and livelihoods in Africa. A seasoned Facilitator, Trainer, Mediator and Consultant with in-depth experience in research, teaching, academic supervision and demonstrated leadership skills. Researches on Medicinal plants and Traditional medicines validation. An avid promoter of *One health*, which combines animal, human and ecosystem health for inclusive wellbeing. His experience includes; Strategic Planning, Resource Mobilization, Conflict Transformation, Peacemaking and Mediation, Environment policy formulation, Terrestrial wildlife and aquatic ecosystem health, Biodiversity information management, Biodiversity conservation assessment and management planning, Red listing, Forest Certification and a Registered Lead Expert in Environmental Impact Assessment (EIA) and Environmental Audit (EA). Currently serving as member of the governing council, Kenya National Academy of Sciences; Lead Member, Environment Institute of Kenya, Organizing Committee Member of International One Health Conferences and a Past board member, National Biosafety Appeals Board among others.

University Education

Ph.D. in Biomedical Sciences (Environmental Physiology), University of Hawaii 1986 –1988.
Bachelor of Veterinary Medicine (**BVM**), University of Nairobi 1979 –1984.

Continuing Education

- Certificate; Mwongozo training for board members of state corporations. State Corporations Advisory Committee. February 2017.
- Certificate in Conservation Agriculture (Farming God's Way, FGW); Care of Creation Kenya. November 2016.
- Certificate in Natural Medicines, Rural Extension for Africa's Poor (REAP) and Action for Natural Medicines (ANAMED). March 2016.
- Biosafety communication, International Service for the Acquisition of Agro-biotech Applications (ISAAA). February 2016.

- Pedagogy training, Centre for Pedagogy and Andragogy (CEPA), University of Nairobi. February 2016.
- Natural capital validation workshop by Ministry of Environment, Water and Natural Resources. June 2013. Safari Park Hotel, Nairobi.
- Prepare PhD programme. A Workshop on PhD supervision by the College of Agriculture and Veterinary Sciences, University of Nairobi. 13th to 15th July 2011.
- Second National conservation assessment and management planning (CAMP) workshop for prioritization of medicinal plants in Kenya. 24th – 26th February 2010.
- East African regional training on Red Listing. 16th - 19th February 2009.
- East African regional training workshop on medicinal plants databases. 21st - 25th October 2008.
- Policy workshop on biodiversity information management in the East African Region, 25th – 29th March 2008.
- Kenya Environment Policy Formulation Process as a member of the National Steering Committee, August 2007 to July 2008.
- Biodiversity Information Management workshop for the East African Region under the Global Strategy for Plant Conservation, 26th – 29th June 2007.
- Proposal & Scientific Writing Workshop, 19th-25th Nov. 2006.
- Proposal development based on the strategy for biodiversity management in East Africa. 2006.
- Developing a Vision and Strategy Framework for Biodiversity Management in East Africa. 2006.
- Research Methods in Medicinal Plants and Traditional Medicine. December 2005.
- Resource Mobilization. December 2005.
- Leadership through Stewardship and Resource Development. July 2005.
- Basic Peacemaking Course. June 2005.
- Forest Certification. April 2005.
- Aquatic Ecosystem Health; July 2003.
- Conflict Transformation in the Context of Environment, June 2003.
- Creation and restoration of indigenous forests. May 2003.
- Mediation and Conflict Resolution Training, July/August 2002.
- Terrestrial wildlife and ecosystem Health. Envirovet Summer Institute, June/July 2000. Florida, USA and Kenya.
- Fundamentals of ornithology. Elsamere Field Studies Centre and National Museums of Kenya, April 2000.
- Project proposal and report writing. ICPSK, 1999.
- Proficiency in Insurance, College of Insurance 1997.
- Fulbright Scholar; University of Georgia, USA. 1995/96.
- DAAD Scholar; Institute for Small Animal Research – Celle, Hannover, Germany. April 1994.
- Avian Medicine Residency; the Institute of Animal diseases: University of Munich, May 1994.

EXPERIENCE

-Associate Professor: Department of Veterinary Anatomy & Physiology: Faculty of Veterinary Medicine, College of Agriculture and Veterinary Sciences, University of Nairobi.
Teaches in the following programs; MSc. Biology of Conservation, MSc. Comparative Mammalian Physiology, MSc. Reproductive Biology, MSc. Animal Production, BSc. Wildlife Management and Conservation, BSc. Wildlife and Fisheries Management, BSc. Wildlife,

Wetlands Management and Conservation, BSc. Wildlife and Tourism Management -Ecotourism and Tourism Impacts Management, Bachelor of Veterinary Medicine (BVM), BSc. Agriculture, BSc. Range Management, BSc. Food Science and Technology, BSc. Biochemistry, Diploma in Animal Health and Production.

-Adjunct Professor, Department of Public Health & Family Medicine, Tufts University, Boston USA. 2006 to date.

-Senior Lecturer, Department of Veterinary Physiology, University of Nairobi, 1992 - 2016

-Visiting Research Fellow, University of Georgia, Athens. USA for 9 months, 1995/96.

-Visiting Research Fellow, (3 times) Universities of St. Andrews and Cardiff, 1993 - 1998

-Visiting research fellow, Institute for Small Animal Research – Celle, Hannover. April 1994.

-Visiting research fellow, Institute of Animal diseases University of Munich. May 1994.

-Lecturer, Department of Veterinary Physiology, University of Nairobi, 1989 –1992.

-Assistant Lecturer: Department of Veterinary Physiology, University of Nairobi 1984 – 1988.

Chairman: Dept. of Veterinary (Animal) Physiology 1993 – 2002 during which I initiated income generation activities in the Faculty of Veterinary Medicine; eg. the Physiology Consultancy and Production Unit (PCPU), the BSc. Biomedical Laboratory Technology; the BSc., Wildlife programs and a Departmental Welfare Fund.

Acting Principal; College of Agriculture and Veterinary Sciences, August 2001.

Acting Dean: Faculty of Veterinary Medicine (Severally) between 1998 and 2002.

Coordinator: BSc. Wildlife Management and Conservation; BSc. Wildlife and Fisheries Management; BSc. Wildlife and Wetlands Management and Conservation; and BSc. Wildlife and Tourism Management 2001—2002. BSc. Biomedical Laboratory Technology, 1999 – 2002.

Some Accomplishments Included:

- Creation of a Nature Camp to demonstrate environmental restoration and conservation of degraded lands and income generation in the ASALs.
- Development of a semi-confined outdoor system for keeping/breeding guinea fowls in captivity. This marks an important step towards domestication of guinea fowls for farming purposes.
- Development of a radioimmunoassay method to measure Ostrich growth hormone.
- Establishment of the University Game birds research facility at UoN, Ngong Forest Station.

Some Consultancies

- Meru Vision 2040: A Blue Print for Meru County Development.
- Development of Agriculture and Livestock Strategy as part of the Kajiado County Spatial Development plan.
- Development of Agriculture and Livestock Strategy as part of the Nakuru County Spatial Development plan.
- Economic Valuation of Livestock to the ASAL Economy as part of Total Economic Valuation of Kenyan ASALs. Completed.
- Trends in livestock production systems and their impact on the environment in the Lake Victoria Region. Completed.
- Facilitation of One Health Central and Eastern Africa (OHCEA) Network formation and development of the Network Strategic Plan. Completed.

-Facilitation of the East African network of medicinal plants and traditional medicines and compilation of the final report. Completed.

Supervision

Ph. D. (Loice Kamau, 2018). Efficacy and Safety of anti diabetic herbal medicines from selected plants in Narok and Nyeri Counties.

Ph.D. (Joseph K Musau, 2016). Bioprospecting and development of a biopesticide for use against mosquitoes from selected plants in Msambweni Sub County, Kenya.

Ph.D. (Irene Kamanja, 2014). Study of antimicrobial, Phytochemical and Toxicological properties of selected plants used in the management of sexually transmitted infections in Samburu County, Kenya.

Ph.D. (D.M. Kimata, 2008). Thesis: Effects of rearing methods and hormones on the growth and reproduction in Helmeted Guinea Fowl (*Numida meleagris*).

Currently supervising 4 Ph.D. Students;

Zelipha Kabubii. Phytochemical characterization, identification of anti-diabetic compounds and toxicological studies of extracts of *Rosmarinus officinalis* cultivars grown in Kenya

Micheni Ndi. Governance and sustainable use of medicinal biodiversity in Kenya

Karambu Murithi. Phytochemistry and bioactivity screening of Kenyan Cyperaceae plants for mosquito repellency and perfumery uses.

Stanley Wambugu; Thesis, Evaluation of pain alleviating, anti-inflammatory and anti-Rheumatoid properties of selected Kenyan Medicinal plants.

Examined 3 Ph.D. Thesis/Candidate as a Board Member.

-Ochwangi Dominic Omosa (2017). An In-vitro Pharmacophysiological anti-cancer potential of medicinal plants used in Kakamega County, Kenya.

-Mande John Ph.D. (2003). Studies on Clinical, Radiographic and Histopathologic Features of Coxofemoral Osteoarthritis in Adult Alsatian Dogs in Kenya.

-Gakuya D.W., Ph.D. (2002). Clinical and Pharmacological Evaluation of the Anthelmintic Activity of *Albizia antihelmintica*, Brogan *Maerua edulis*, De Wolf, and *Maerua subcordata*, De Wolf, Plant Extracts in Sheep and Mice.

14 MSc. Students;

Samuel Nderitu Ngaya; (2020). Evaluation of anti-diabetic properties of selected Kenyan *Solanum Nigrum* varieties

Zelipha Nyaituha Kabubii, (2015). Phytochemical screening, Bioactivity and toxicological studies of *Catharanthus roseus*, *Myrsine Africana* and *Rosemarinus officinalis*

Zachary Rukenya, (2014). In vitro antimicrobial and cytotoxicity activity of *Aloe turkanensis*, an ethnomedical herbal remedy used in Turkana, Kenya.

Karambu E Murithi, (2012). Thesis. Bioassay guided characterization of anti-rheumatic principles from *Cyperus articulatus*.

Jane Njoroge, (2012). Thesis. Comparative study of hypoglycemic activity of *Urtica dioica* (Stinging nettle), *Azadirachta indica* (Neem) and *Aloe secundiflora* (Aloe) extracts on rabbits streptozotocin- induced diabetic rats.

Loice Kamau, (2012). Thesis. Comparative study of anti-hypertensive properties of *Azadirachta indica* (Neem) *Urtica dioica* (Stinging nettle) and *Aloe secundiflora* (Aloe) extracts on rabbits.

Nicholas Mwenda Jacob, (2011). Thesis. Assesment of organochlorine pesticide residues in cow milk, sediments and Water from Nairobi west region.

Paul Ayieko, (2011). Thesis. A comparative economic analysis of the contribution of livestock to household incomes: A case of Uriri, Karungu and Nyatike Divisions.

Joel Wamalwa, (2010). Thesis. A sectoral environmental audit of livestock production systems In Migori district, Nyanza Province.

Viola Chemis, (2009). Thesis. Some factors affecting egg hatchability and chick mortality in farmed Ostriches in Kenya.

Jacqueline Karachi-Mugomba, (2009). Thesis. Efficacy of selected Kenyan medicinal plants used in the treatment and management of type II diabetes.

Stephen Ngui Mutwiwa, (2008). Thesis. Prevalence of lifestyle risk factors among diabetic patients at Kenyatta national hospital (Nairobi, Kenya).

Orege, Caleb;(1995) Thesis: Nitrogen Metabolism in the Ostrich (*Struthio camelus*).

Maiga Gilbert; (1992). Thesis: The role of Myofibrillar ATPase and Thyroid hormones in the Development of Thermoregulation in Domestic Fowl (*Gallus domesticus*).

Currently Supervising 3 MSc. Students;

Chrustine Bii; Phytochemical screening, anti-diabetic activity and sub-acute toxicity of *Acacia nilotica* and *Rhamnus staddo*.

Caroline Wanjiku Kinuthia; Assesment of anti-diabetic activity and sub-acute toxicity effects and phytochemical screening of aqueous extracts of *Clematis hirsuta* and *Rhamnus prinoides* using Wister Albino in rats.

Pauline Mbeere Mureithi; Anti-ulcerogenic effects of selected African nightshades (*Solanum Nigrum*) genotypes in a rat model: A morphologic and morphometric study

Internal Examiner

Emma Wanjiku Kagunya (2020). Phytochemical and Toxicological Evaluation of *Croton Menyharthii* from Tana River County, Kenya.

Githinji James Maina (2018). A study of herbal medicines used in Muranga county, anti-flea activity and toxic effects of *Tithonia diversifolia* and *Senna didymobotyra* extracts.

Abdi Hussein Hadun, MSc. (2017). Phytochemical, antiviral potential and toxic effects *Dichrocephala Integrifolia Kuntze* extracts.

Awot Sunday Luke, MSc. (2017). Effect of acute physical exercise on coagulation in obese subjects and its relation to blood lactate and lipid levels.

Martin Kuria Mungai, MSc. (2016). A study on the effects of chronic sleep deprivation on pulse presssure.

Clare Njoki Kimani. MSc. (2013). Efficacy and Phytochemical Screening of plants used in management of diabetes mellitus in Machakos County, Kenya.

Karani Magutah. MSc. (2012). Assesment of physical fitness: A study of male students at Moi University.

Joseph Kipkoech Bundotich. MSc. (2011). Study of acute toxicity of *Zanthoxylum Chalybeum* using Mice and Brine Shrimp experimental model.

Joseph Kisivo Musau, MSc. (2010). Antimicrobial activity, cytotoxicity and phytochemistry of selected medicinal plants in Meru Central District, Kenya.

Wamwere Njoroge, MSc. (2004). Studies on Preventive and Curative Ethnoveterinary Remedies Applied by the Rendille/Ariaal and Gabra Communities of Marsabit District, Kenya.

Supervised 4 BSc. Wildlife Management and Conservation final Year Dissertation Projects.

Kamanzi Sidney Shema (2017). Determining the size and structure of a newly discovered Hinde's Babbler population at the University of Nairobi's Kabete field station and surrounding areas

Cynthia Ngunja (2013). Wetland Conservation and Communities; A case of Ondiri Swamp.

Boru A. Hassan (2004). Study of Population Size and Threats to the Oxpeckers (*Buphagus spp.*) in Samburu National Reserve.

Ali A. Hussein.(2004). Reconciling Conflicting Interests Between Conservation and other Land Uses in Kitengela Area.

Supervised 1 HND Medical Laboratory Technology Dissertation;

Regina Muchena (1995). A Comparative Study on Full Haemogram and Erythrocyte Sedimentation Rates in Flying and Non-Flying Birds.

Examined 11 MSc. Students thesis as a member of the Board of Examiners;

Boniface Mwangi Chege, (2019). Investigation of the antidiabetogenic effects of the freeze dried extracts of *Rotheca myricoides* (Hochst) Steane & Mabb in an animal model of type 2 diabetes (high fat and fructose diet plus low dose streptozocin) - a whole body physiology approach.

Hesbon Zablon Amenity, (2018). Acute and subacute toxicological studies of *Rapanea melanophloeos* (L.) Mez in laboratory Rats.

Jacob Wekesa Masika. Electrocardiographic changes in normal aging in a black African population.

Josephat Wambua. The distribution, abundance and ecological impacts of invasive plant species at Ol-Donyo Sabuk National park, Kenya.

Mercy Kamaku. In vitro study of the effect of organic extract of Enzoy on isolated rabbit heart and jejunum.

Peter Wachira. "Cultivation of Pleurotus Mushroom Using Agricultural and Industrial Wastes.

Chales.N. Kimwele, "Effects of recombinant human growth hormone in juvenile Nile Crocodiles".

Philomen.K. Towett, "Evaluation of the commonly used analgesics in the Naked Mole-rat (*Heterocephalus glaber*) and the Root-rat Mole-rat (*Tachyoryctes splendens*) using the hot plate test.

E.M. Onyango, "Effects of experimental pulmonary embolism on electrocardiographic parameters, blood pressure, exercise tolerance and cardiac morphometry in the domestic dog".

Research

Currently involved in the following research Projects:

-Legal pluralism, pesticide use and sustainable horticulture in East Africa

-Ethnoveterinary and Ethnomedicine: Biological activity Screening of East African medicinal plants and traditional medicines for efficacy, toxicity and safety in the treatment of disease conditions eg. Diabetes;

-EcoHealth and One Health

Some Completed Projects;

-Capacity building for traditional rural herbalists in Kenya.

-Commercialization of medicinal and aromatic plants products in Kenya.

-A Higher Education Technology Network for Kenya; Program Development in Public and Ecosystem Health. This is a collaborative project between Tufts University in Boston and a Consortium of East African Universities to Co-develop and share Curriculums and Course content using the internet.

-Trends in livestock production systems and their impact on the environment and livelihoods in the lake Victoria basin

-Game birds farming: Domestication of Guinea Fowls and Investigation of the Causes of poor reproductive performance and chick mortality in farmed Ostriches.

- Effective integration of Biodiversity resources and management as a tool for promoting rural agricultural reform.

-An Ethnobotanical survey of medicinal plants of ethnoveterinary importance and other applications in Mt Kenya region.

-Development of Thermoregulation in birds.

-Partitioning of Nitrogen Metabolism in Ostriches

-Reproductive endocrinology in guinea fowls.

-Hematology of game birds.

-Development of a radioimmunoassay method to measure Ostrich growth hormone.

AWARDS

-**IDRC Methodology workshop** on Medicinal Plants and Traditional medicines, December 2005.

-**IDRC Resource Mobilization Workshop**, December 2005.

-**Darwin Initiative** Kenya Project on Aquatic Ecosystem Health. July. 2003.

- **Envirovet Summer Institute 2000** Award. 2 months in Florida and Kenya

-**Fulbright Scholar** Award for nine months at the University of Georgia, USA. 1995/96..

-**ODA/British Council Research Fellowships** (3 times between 1993 and 1998) to University of St Andrews; University of Cardiff; Roslyn Institute and The Game Conservancy, all in Britain.

- **DAAD Scholarship** award for 2 months at The Institute for Small Animal Research – Celle, Hannover and The Institute of Animal Diseases: University of Munich. 1994.

- **NORAD Scholarship** Award for 3 years at the University of Hawaii. 1986 – 1988

PROFESSIONAL BODIES

- **Executive Committee Member**, Ameru Professionals Association

- **Lead Member, Environment Institute of Kenya (EIK)**. An institute founded in 2014 to extend and disseminate environmental knowledge and promote the practical application for public good.

- **Council Member, Kenya National Academy of Sciences.**

- **Registered Lead Expert**, Environmental Impact Assessment (EIA) and Environmental Audit (EA), by the National Environment Management Authority (NEMA).

- **Member, executive committee**; Kenya working group on medicinal and aromatic plant species (KWG-MAPS).
- **International Committee member representing Africa** – International Society for Avian Endocrinology (ISAE).
- **Secretary General**; African Association of Physiological Sciences (AAPS).
- **Secretary** Kenya Physiological Society
- **Member** Kenya Veterinary Association -.
- **Bird Committee member** Nature Kenya (East African Natural History Society)
- **Member** East African Wild Life Society
- Member**, Kenya Forests Working Group.

COMMUNITY SERVICE

- Chair, HIV/AIDS Committee, Rotary International, District 9212
- Chair, Elders Court. Karen Community Church.
- Member (Chair of the Social Pillar), Meru County Economic and Social Council.
- Secretary, Meru Central Development Association.
- Assistant Governor, Rotary International, District 9212
- Chair, Leadership Development and Creation Care/Stewardship, Karen Community Church.
- Chair, Rotary International, Kenya Country Emergency Response Committee.
- Executive Director, Centre for Environmental Stewardship <www.ces-stewardship.org>
- Member, National Steering Committee (NSC) on Continuing Medical Education (CME); also known as Continuing Professional Development (CPD) of the Ministry of Health.
- Vice President for Kenya Program, Pathways Leadership for Progress; an international NGO giving scholarships to university students.
- Member, Ngong Hills Forest Conservation Forum (NHFCF); a Stakeholders association for the Conservation of Ngong Hills Forest Reserve.
- Secretary, Ngong Hills Forest Conservation Management Team.
- Chairman, Olepolos Community Development Group (OCDG); a residents association in charge of water, roads, Environment and Security of the area.
- Patron, Lippia Environmental Club (LEC); a youth environmental association.

PUBLICATIONS.

BOOKS.

1. Peris Kariuki, **Mbaabu Mathiu** and Dickson Kimathi, (2014). Indigenous Knowledge and Practices on Conservation of Forest and Water Resources in Meru and Tharaka-Nithi Counties, Kenya. ISBN 978-9966-1616-4-2.
2. Constance Hunt, Murithi Riungu and **Mbaabu Mathiu**, (2011). Constructed Wetland for Water Treatment and Recreation, Ngong River. A Preliminary Feasibility Study. Published by Centre for Environmental Stewardship. ISBN 978-9966-1616-0-4.
3. **Mbaabu Mathiu**, (2005). Contributor In: Some Important Medicinal Plants of Kenya,

Policy Issues and Needs for Commercial Development. By Titus Mukiama. Neem, p.40 – 65. Published by KARI. ISBN 9966-879-68-4

4. Githiori John, **Mbaabu Mathiu**, James Mbaria, Leina Mpoke, Jacob Miaron and Patrick Omari, (2004). Authors, Ethnoveterinary Practices in Eastern Africa. Published by Community-based Livestock Initiatives Programme (CLIP); ISBN – 9966-907-15-7.
5. **Mbaabu Mathiu**, (2003). Contributor In: Kenya National Strategy and Action Plan for Medicinal and Aromatic Plant Species (MAPS). Eds. Kenya Working Group on MAPS. Publishers; KARI 2003.
6. **Mathiu, P.M.**; (1991): Contributor in: A Practical Manual on Animal Physiology. Ed J.M.Z Kamau, Nairobi University Press.

REFEREED PAPERS.

7. Nyaga SN, Mathiu PM, Onyango CM, Areba GO. Antidiabetic properties of *Solanum villosum* and *Solanum nigrum var sarrachoides* in a streptozotocin-induced diabetic mice model. Int J Basic Clin Pharmacol 2019;8:2396-402.
8. Micheni Ndii Kiraithe, Muthee John K., **Mathiu Peter M.**, Muthama Nzioka J. (2019). Bio-prospecting of Medicinal Bio-resources from the Kenyan Biodiversity: Reflections on Governance as the Missing Link - A Review Article. Journal of Health, Medicine and Nursing www.iiste.org ISSN 2422-8419. Vol.60, 2019. Page. 46 - 56.
9. Kamanja IT., Mbaria JM., Gathumbi PK., **Mbaabu M.**, Kabasa John D, Kiama SG. (2018). Cytotoxicity of selected medicinal plants extracts using the brine shrimp lethality assay from Samburu county, Kenya. The Journal of Medical Research; 4(5): 249-255.
10. Loice Njeri Kamau, Peter **Mathiu Mbaabu**, Peter Gathumbi Karuri, James Mucunu Mbaria, Stephen Gitahi Kiama (2017). Medicinal plants used in the management of diabetes by traditional healers of Narok County, Kenya. TANG / www.e-tang.org TANG Humanitas Medicine, Volume 7 / Issue 2 / e10. 1 - 10.
11. Loice Njeri Kamau, **Mathiu P. Mbaabu**, James Mucunu Mbaria, Gathumbi Peter Karuri, Stephen Gitahi Kiama (2016). Ethnobotanical survey and threats to medicinal plants traditionally used for the management of human diseases in Nyeri County, Kenya. TANG Humanitas Medicine. TANG / www.e-tang.org Volume 6, Issue 3, Page 1 - 15.
12. Loice N. Kamau, **Mathiu P. Mbaabu**, James M. Mbaria, Gathumbi P. Karuri and Stephen G. Kiama, (2016). Knowledge and demand for medicinal plants used in the treatment and management of diabetes in Nyeri County, Kenya. Journal of Ethnopharmacology <http://dx.doi.org/10.1016/j.jep.2016.05.021>
13. Musau J K, Mbaria J M, Nguta J M, **Mbaabu M**, and Kiama S G (2016). Mosquito repellency and knockdown effect of a plant based formulation. IOSR Journal Of Pharmacy.

14. Musau J K, Mbaria J M, Nguta J M, **Mbaabu M**, and Kiama S G (2016). Evaluation of genotoxicity potential of plants traditionally used for mosquito control in Kenya's South Coast. Merit Research Journal of Medicine and Medical Sciences (ISSN: 2354-323X) Vol. 4(4) pp. 178-182, April, 2016
14. Zelipha N. Kabubii, James M. Mbaria, and **Mathiu Mbaabu** (2015). Acute toxicity studies of *Catharanthus roseus* aqueous extract in male Wistar rats. African Journal of Pharmacology and Therapeutics Vol. 4 No. 4 Pages 130-134, 2015.
15. Zelipha N. Kabubii, James M. Mbaria, and **Mathiu Mbaabu** (2015). Acute toxicity studies of *Myrsine africana* aqueous seed extract in male Wistar rats on some hematological and biochemical parameter. Clinical Phytoscience,
16. Rukenya Zachary Muthii*, Mbaria James Mucunu, **Mbaabu Mathiu Peter**, Kiama Stephen Gitahi, Okindo Ronald Onzago (2014). Antimicrobial activity of aqueous and methanol extract of naturally growing and cultivated *Aloe turkanensis*. The Journal of Phytopharmacology. 3(5): 343-347
17. Dennis M. Kimata, Richard W. Mwangi & **Peter M. Mathiu** (2014). Confinement lowers fertility rate of helmeted guinea fowl (*Numida meleagris*) eggs. African Zoology **49**(1): 153–156
18. Lucia K Keter, Nicholas M Mwikwabe, **Mathiu P Mbaabu**, Harihara M Sudheer, Festus M Tolo, Palu Dhanani and Jennifer A Orwa (2013). Validation of Safety and Efficacy of Antitussive Herbal Formulations. African Journal of Pharmacology and Therapeutics, Vol 2 No (1) Page 26 – 31.
19. **Mbaabu M**. and Matu E. N. (2012). Medicinal plants utilization in the treatment of human and livestock diseases in Meru District, Kenya. The Pharmaceutical Journal of Kenya. Vol. 21 No. 1. Page 18 – 24.
20. Bareeba, F., **Mbaabu, M.**, Bwire, J. and Ngetich K. (2011). Trends in livestock production systems and their impacts on the environment and livelihoods in Mpigi District, Uganda. Natural Resources management and land use proceedings of the cluster workshop. Inter-University Council of East Africa, Lake Victoria Research Initiative. ISBN 978-9970-452-02-6. Page 7 – 16
21. Bwire, J., **Mbaabu, M.**, Bareeba, F. and Ngetich K. (2011). Trends in livestock production systems and their impacts on the environment and livelihoods in Lake Victoria basin: Experiences from Mwanza, Tanzania. Natural Resources management and land use proceedings of the cluster workshop. Inter-University Council of East Africa, Lake Victoria Research Initiative. ISBN 978-9970-452-02-6. Page 33 – 42
22. Gakuya DW, Mbaria JM, Kiama SG, Gathumbi PK, **Mathiu M**, and Nguta JM (2011). Ethnoveterinary Medicine: The prospects of integrating medicinal plant products in Veterinary

Medicine in Kenya. Review article. The Kenya Veterinarian Vol. 35(2): 67 – 76.

23. Kimata MD, Mwangi RW and **Mathiu PM** (2011). Outdoor confinement does not compromise reproductive performance of the helmeted guinea fowl (*Numidia meleagris*). The Kenya Veterinarian Vol. 35(2): 111 – 118.
24. Stanley N Wambugu, **P Mbaabu Mathiu**, Daniel W Gakuya, Titus I Kanui, John D Kabasa and Stephen G Kiama (2011). Medicinal plants used in the management of chronic joint pains in Machakos and Makueni Counties. Kenya. Journal of Ethnopharmacology; 137: 945 – 955.
25. **Mbaabu Mathiu** and Peris Kariuki (2007). Indigenous Ecohealth Practices in East Africa. EcoHealth Volume 4 Number 4: 536 – 538.
26. **Mbaabu Mathiu** P.M. Mbugua & J. Mugweru (2005). Screening for Biological activity of *Solanum Incanum* and *Conyza Sumatrensis* using the isolated Rabbit intestine. Kenya Veterinarian 29:29-32
27. **Mbaabu Mathiu** (2005). Using Neem tree to improve animal health and productivity in the Arid and Semi-Arid Lands (ASALs). Kenya Veterinarian 29:60-63
28. L. Mpoke & **Mbaabu Mathiu** (2005). Indigenous Knowledge (IK) and Practices in Traditional Animal Healthcare in the Arid and Semi-Arid Lands (ASALs): The challenges and future of animal health and production services delivery. Kenya Veterinarian 29: 99-103
29. Kanyari, P.W.N., T.A. Ngatia, **P.M. Mathiu**, A. Oyejide and K.K. Srivastava (2005). Some causes of poor performance and chick mortality in farmed Ostriches in Alabama [USA] and Kenya. The Kenya Veterinarian 28: 6 – 10.
30. Ngatia T.A., P.W.N. Kanyari, **P.M. Mathiu**, P.K. Gathumbi, K.K. Srivastava, S.T. Wilson and A. Oyejide (2005). Oedema (exudative diathesis) in Ostriches in Kenya. The Kenya Veterinarian 28: 11 – 15.
31. Ngatia T.A., P.W.N. Kanyari, **P.M. Mathiu**, K.K. Srivastava, S.T. Wilson and A. Oyejide (2004). Postmortem observations on Ostrich chicks in a commercial farm in Kenya. Bulletin of Animal Health and Production in Africa. 52: 59-62.
32. Ngatia T.A., P.W.N. Kanyari, **P.M. Mathiu**, and A. Oyejide (2004). Some postmortem observations on Unhatched Ostrich embryos in a selected locality in Kenya. The Kenya Veterinarian, 26: 55-58.
33. Orenge, C.O.; **Mathiu P.M.** and Mbugua P.N. (2002). Nitrogen retention as an indicator of metabolic utilization of nitrogen in three months old ostrich chicks (*Struthio camelus massaicus*). African Journal of Ecology, 40, 399 – 400.
34. Srivastava, K.K., Oyejide, A., Kanyari, P.W.N., Ngatia, T.A. and **Mbaabu Mathiu**, (2002). Oozing Ostrich Egg: Omphalitis caused by Enterobacter sp. Lab Animal Vol. 31, 1: 23 – 24.

35. **Mathiu, P.M.**; Dawson, W.R. and Whittow, G.C. (1994). Thermal responses of late Embryos and Hatchlings of the sooty Tern. *Condor* 96:280-294.
36. Whittow, G.C., **Mathiu, P.M.**; and Dawson, W.R. (1992). The ontogeny of thermoregulation in tropical seabirds. *National Geographic Research and Exploration*. (96-107).
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