

CURRICULUM VITAE

1.1 Personal Profile



1.1.1 Personal Details **Personal Information**

Name: Joseph Kamau
Address: P. O. Box 1644, Thika
Email: Kamau.Joseph@ku.ac.ke

1.1.2. Brief Biography

Dr Joseph Kamau obtained his Doctorate degree from university of KwaZulu Natal South Africa. He is a long time breeder. He started breeding sorghum and oil crops later shifted to root and tuber crops where he release over 15 varieties of cassava and four of sweet potatoes as well as coordinating research for these crops nationally. He has also been principle investigator in major projects in the region. In the last ten years he has been involved in rice improvement and agronomy. He has mentored many young scientists at Kenya Agricultural and Livestock Research Organization (KALRO) and supervised postgraduate student. He has published papers in referee journals and made several conferences, symposiums and workshop on various issues affecting agriculture.

1.1.3 Academic & Professional Qualifications

- 2013: Post Doctorate diploma in Project Management. Galilee International College of Management, Israel.
- 2012: Certificate in Strategic Leadership. Kenya Institute of Management, Kenya.
- 2007: PhD Degree in Plant Breeding. University of KwaZulu-Natal, South Africa
- 2000: Proposal writing course in ILRI, Nairobi, Kenya.
- 1996: Advanced data management and utilisation course in Kampala, Uganda.
- 1994: Advanced plant-breeding course in International Institute of Tropical Agriculture, Nigeria.
- 1991 - 93: Msc. Degree in Plant Breeding from University of Wales, UK.
- 1984 - 85: Post graduate training in plant genetic resources (conservation and

utilisation) in West Germany.

1984 Certificate in German language in West Germany

1978 – 81: Bsc. Degree in Botany, University of Nairobi, Kenya.

1.1.4 Employment History and Responsibilities:

2015 to present: Lecturer Kenyatta University

2010 to 2015: -In charge of Seed production in the East African Agricultural Productivity

-Project and Breeding of root and Tuber Crops (cassava and sweetpotato) at KARI-Katumani for the semi-arid areas

1997 to 2010: Coordinated and managed cassava multiplication in western and Nyanza provinces

1993 - Present: Coordinator and head of the National Cassava Program in Kenya with the following responsibilities:

- Sourcing funds for the program locally and internationally.
- Create linkages with the various stakeholders in the country (researchers, extension agents, farmers, processors, and marketing agents).
- Create and strengthen collaboration with other national and international centres involved in cassava activities.
- Create awareness on the importance of cassava as food, feed and industrial crop.
- A voting member of the East African Root crops research network

1993 - Present: Breeding of cassava and sweet potatoes for semi-arid areas.

1985 - 91: Collection, characterisation, documentation, rejuvenation and conservation of the semi-arid plant genetic resources (food crop and their wild relatives).

1983 - 84: Breeding of sorghum for the semi-arid areas

1981 – 82: Breeding of cowpea and safflower for the semi-arid areas

1.1.4 Achievements

Released Varieties in Collaboration With Other Scientists:

2010: Sweet potato orange fresh varieties released for the semi-arid area

- i. KSP0154,
- ii. KSP0072,
- iii. KSP0047,
- iv. KSP 0084

2010 Cassava early maturing varieties released

- v. KME 2,
- vi. KME 3,
- vii. KME 4

2000: Cassava varieties released to farmers in the semi-arid areas,

- i. 990011,
- ii. 990012,
- iii. 990013,
- iv. 990014,
- v. 990056,
- vi. 990067,
- vii. 990072,
- viii. 990127,
- ix. 990130
- x. 990181

1.2 Publications

1.3 Fourth Year Publication with students

- 1 Pauline W. Njoroge; **Joseph Kamau** and Peterson Muchemi. **2021**. Screening of selected maize (zea mays) genotypes for resistance to maize chlorotic mottle virus (M.C.M.V) IN KENYA. Kenyatta University
- 2 Jeneffer Wamucii, **Joseph Kamau** and Peterson Muchemi. **2021**. Screening of selected maize genotypes for resistance to sugarcane mosaic virus (SCMV) IN KENYA. Kenyatta University

1.2.1 Referred Journals

1. Ann Mwaura, Omwoyo Ombori, **Joseph Kamau**. 2020 Potential application of DNA barcoding technology for identification of medicinal plant species traded in Nairobi County, Kenya. *East African Journal of Science, Technology and Innovation, Vol. 4 (2): 2023*. EISSN: 2707-0425
2. Al-Imran Dianga, Ruth N. Musila and **Kamau, W. Joseph**, 2021. **Book Chapter: Rainfed Rice Farming Production Constrains and Prospects, the Kenyan Situation. Intech Open Book Series, peer-reviewed. DOI: <http://dx.doi.org/10.5772/intechopen.98389>**
3. Al-Imran Dianga, **Kamau W. Joseph**, and Ruth N. Musila. 2020. Analysis of Combining Ability for Early Maturity and Yield in Rice (Genus: *Oryza*) at the Kenyan Coast. *International Journal of Agronomy. Volume 2020 |Article ID 6230784| <https://doi.org/10.1155/2020/6230784>*
4. Valentine Atieno*, Grace W. Gatheri, **Joseph W. Kamau** and Morris Muthini. 2020. Morphological and molecular characterization of cultivated yam (*Dioscorea* species) in selected counties in Kenya. *African Journal of Plant Science Vol. 14(7), pp. 270-279, July 2020 DOI: 10.5897/AJPS2020.2020 Article Number: 332CF7B64301 ISSN 1996-0824 Copyright © 2020 <http://www.academicjournals.org/AJPS> .*
5. Ann Mwaura, **Joseph Kamau**, Omwoyo Ombori. 2020. An ethnobotanical study of medicinal plants commonly traded in Kajiado, Narok and Nairobi counties, Kenya. *East African Journal of Science, Technology and Innovation: Vol. 1 No. 3 (2020): Volume 1 issue 3*
6. L. Kanyange , **J. Kamau**, O. Ombori , A. Ndayiragije and M. Muthini. 2019. Genotyping for Blast (*Pyricularia oryzae*) Resistance Genes in F2 Population of Supa Aromatic Rice (*Oryza sativa* L). *International Journal of Genomics Volume 2019, Article ID 5246820, 10 pages <https://doi.org/10.1155/2019/5246820>*
7. Muchemi, P.K., **Kamau, J.W.**, Shem. B.N, Mathew P. N, Kimaru, S.K. Mwangi. J.W, Joyce. W, Florence, M. 2019. Genetic Response of Selected Maize Germplam Screening for MLND Resistance in Kenya. *Kenyatta University Biennial Research & Innovation Conference*
8. Muchemi, PK, **Kamau, J.W.**, Shem. B.N, Mathew P.N, Kimaru, S.K., Mwangi, J.W. Waithira, J., Munguti, F. 2019. The relationship between level of education, Farmers varietal prevalence, control and distribution of Maize Lethal Necrosis in Bomet County. *Kenyatta University Biennial Research & Innovation Conference*

9. Muchemi, P.K., **Kamau, J.W.**, Shem, B.N., Omwoyo, R.O., Kimaru, S.K., Mathew, P.N. **2019**. The use of low Tissue Culture Technology towards food sustainability in Kenya. *Kenyatta University Biennial Research & Innovation Conference*

10. Muchemi, P.K., **Kamau, J.W.**, Mathew, P.N., Shem, B.N. and Mwangi, J.W., Kimaru, S.K. **2018**. The current status of Maize Lethal Necrosis Disease in Nyandarua County, Kenya. *Horticultural Association of Kenya*

11. Muchemi, P.K., **Kamau, J.W.**, Wabuye, E., **2018**. The Effects of Invasive Plants in East Africa and its Wild Beauty Beast. *RUFORUM Biennial*

12. Muchemi P.K, **Kamau, J.W.**, Shem, B.N., Mathew. P.N. Omwoyo, R.O., Kimaru, S.K., **2018**. The use of low Tissue Culture Technology towards food sustainability in Kenya. *RUFORUM Biennial*

13. P. A. Sikuku, J. M. Kimani, **J. W. Kamau** and S. Njinju. **2016**. Influence of Nitrogen Supply on Photosynthesis, Chlorophyll Content and Yield of Improved Rice Varieties under Upland Conditions in Western Kenya. *American Journal of Experimental Agriculture 13(2): 1-14, 2016, Article no.AJEA.13859. ISSN: 2231-0606*

14. P. A. Sikuku, J. M. Kimani, **J. W. Kamau** and S. Njinju. **2015**. Evaluation of Different Improved Upland Rice Varieties for Low Soil Nitrogen Adaptability. *International Journal of Plant & Soil Science. 5(1): 40-49, 2015; Article no.IJPSS.2015.058ISSN: 2320-7035*

15. Sikuku P.A., Kimani J.M., **Kamau J.W.** and Njinju S. (2014). Comparison of different improved upland rice varieties to low soil nitrogen adaptability. *Paper presented to rice Mini conference in Morogoro, Tanzania, 2014*

16. **Kamau, J.W.**, Melis, R., Laing, M., Derera, J., Shanahan, P. and Ngugi, E. C. K., **2011**. Farmers' participatory selection for early bulking cassava genotypes in semi-arid Eastern Kenya. *Journal of Plant Breeding and Crop Science Vol. 3(3), pp. 44-52, March 2011*

17. **Kamau, J.W.**, Melis, R., Derera, J. and Laing, M. R., Shanahan, P., E.C.K. Ngugi, **2010**. Combining ability of selected cassava genotypes for yield and secondary traits in the semi-arid areas of Eastern Kenya. *Journal of Plant Breeding and Crop Science Vol. 2(7), pp. 181–191, July 2010*

18. **Kamau, J.W.**, Melis, R., Laing, M., Shanahan, P., Derera, J. **2007**. Farmers Participatory selection for early bulking cassava genotypes in the semi-arid areas of

eastern Kenya. In: *Biotechnology, Breeding and Seed Systems for Africa. Research and product development that reaches farmers*) 26 to 29 March 2007, Maputo, Mozambique. Abstract. Pp 87

19. **Kamau J.W.**, R. Melis, M. Laing, P. Shanahan. **2006**. Participatory based development of early bulking cassava varieties for the semi-arid areas of Eastern Kenya. *PhD Thesis. University of KwaZulu-Natal*
20. Kariuki, C.W., **Kamau J.W.**, Mbwika, J., Munga, T., Makhoha, A.O., Tunje, T., Nzioki, S. Gatheru, Njaimwe, Wambua, Odendo, M. Lutta, M. and Karuri, E.G. **2002**. A report on Cassava sub-sector analysis for Kenya. In J.M. Mbwika, P. Ntawuruhunga, C. Kariuki and A. Makhoka (eds). *Proc. of the regional workshop on improving the cassava sub-sector, Nairobi Kenya. April 2002. Pp35.*
21. Legg, J.P., Sseruwagi, Owor, B., Whyte, J.B.A. Obiero, H., **Kamau, J.W.**, Ndyetabula, L. Jeremiah, S. and Otim-Nape. G.W.**2001**. Management of cassava mosaic geminiviruses in East and Central Africa. *Presented at the geminiviruses meeting at John Innes Centre UK.*
22. **Kamau, J.W.**, S.Nguluu, J. Kinama. Farmer evaluation of cassava varieties in the semi-arid areas of Kenya. *Presented at the ISTRC-AB, 1999*
23. Kamau, J.W., Muhamed, L., Kariuki C.W., Ndolo P.J., and Munga T.L. **1998**. Cassava in Kenya. In the proceedings "*Cassava mosaic disease management workshop held at Sunset Hotel Jinja, Uganda 7- 8 December, 1998.*
24. Gichuki S.T., Carey E., Mwangi R., Kapinga R., Ndolo P.J. and **Kamau J.W.** Evaluation of sweet potato seedling progenies in Kenya and Tanzania. *Presented at the ISTRC-AB, 1995.*
25. Ndolo, P.J., E.Carey, S.T. Gichuki, G. Maisiba, J. Ngungi, J.W. Irungu, **Kamau J.W.**, C. Luswetii and D. K. Maina.. Multilocational testing of sweet potato clones in Kenya. *Presented at the ISTRC-AB, 1995*
26. **Kamau J.W.** and Thomas H. Identification of genetic diversity in physiological responses to stress in maize. *University of Wales UK., Msc thesis, 1993.*
27. **Kamau, J.W.**, Kinama, J.M., Nguluu, S.N., Muhammad, L., Whyte, J.B.A., Ragwa, S.M., Migwa, E.N. and Simiyu, P.M. **1998b**. Farmer's evaluation of cassava varieties in the semi-arid areas of Kenya. In: Akoroda, M.O., and Ngeve, J.M. (eds.) *Root Crops in the 21st century. Proceedings of the seventh ISTRC-AB. Pp. 378-383*

28. **Kamau, J.W.**, Ndolo P.J., MambiriA., Githunguri, C.M. Gichuki S.T., Bugusu B.A., Omari F.A., Kusewa F., Presented at the ISTRC-AB, **1995**.An update of cassava program in Kenya, Root Crops in the 20th century. *Proceedings of the seventh ISTRC-AB*.
29. Kermali, I.K., Shakoor A., **Kamau J.W.**, 1983. Abstract, Breeding sorghums for semi-arid Area. *E. Afr Agri and For. J. Vol.44*.
30. Waite, B.H., A.Shakoor, I.R.Kermali, **J.W. Kamau**. Evaluation of resistance of sorghum varieties to charcoal rot disease, (*Macrophomina phasedlina*) **1983**. *E. Afr .Agri and For. J. Vol.44*.
31. Shakoor A., Ngugi E.C.K., Muthoka S., **Kamau J.W.**, **1983**. Improvement of cowpea varieties for the dryland areas in Kenya. *E. Afr. Agri and For. J. Vol.44*.

1.2.3 Conference/Workshops/Seminar Papers

1.2.3.1 Conference Papers

- 2011: Developing Root and Tuber Crops value Chain, 22 to 2nd march 2011
- 2010: Harmonize cassava and potato standards 22nd - 24th March 2010 Kigali, Rwanda
- 2009: The march towards the green revolution in Africa- Improving the lives of farmers through stronger seed systems October 5-8 2009 Bamako, Mali.
- 2007-2008: Developing a Mega cassava Project for ASARECA. Entebbe and Kampala, Uganda.
- 2007: Biotechnology, Breeding and Seed Systems for Africa II. (Research and product development that reaches farmers) 26 to 29 March 2007, Maputo, Mozambique
- 2005: Biotechnology, Breeding and Seed Systems for Africa I. (Research and product development that reaches farmers) March 2005, Nairobi, Kenya
- 2000: International crop science symposium, Hamburg, Germany.
- 1999: International symposium on tropical roots and tuber crops, Cotonou, Benin.
- 1998: Cassava mosaic disease management workshop, Jinja, Uganda.
- 1995: International symposium on tropical roots and tuber crops, Lilongwe, Malawi.
- 1990: Sorghum and millet, East African region workshop, Nairobi, Kenya.
- 1990: Second Kenya Agricultural Research Institute (KARI), scientific workshop, Nairobi, Kenya.
- 1989: First Kenya biotechnology workshop, Nairobi, Kenya.
- 1988: Workshop in Plant Genetic Resources in Africa in Nairobi Kenya
- 1985: First Agricultural Research and Extension for the dry land areas in Kenya, Embu, Kenya.
- 1983: Symposium on dry land farming research, held at Embu, Kenya.
- 1983: More food from better technology organised by FAO, Nairobi, Kenya.

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1.2.3.2 Workshops Papers

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1.2.3.3 Seminar Papers

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1.2.5 Student Co-authored Publications

Kanyange L., Kamau J., Ombori, O A. Ndayiragije and M. Muthini. 2019. Genotyping for Blast (*Pyricularia oryzae*) Resistance Genes in F₂ Population of Supa Aromatic Rice (*Oryza sativa* L.)

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1.2.4 Other Publications

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1.3 Research

On Going Research

1. Morphological and Molecular Characterisation of Graviola in selected Agro-Ecological Regions in Kenya in Embu, Kitui and Nyeri counties
2. Integrating Fish and Poultry Manure Into Rice Fields In Bunyala Irrigation Scheme, Kenya
3. Molecular Characterisation of Maize Germplasm and Screening for Resistance to Maize Lethal Necrosis Disease in Kenya”.
4. Identification of commonly used Medicinal Plants in Kenya Using DNA Barcoding. Kajiando and Nairobi counties
5. Combining Ability, Molecular Characterization and Screening Inbred Lines of Maize (Zea Mays) for Aspergillus Flavus Resistance in Machakos and Makueni Counties.”

1.4 Funded Projects

Research projects written and funded:

- 1981- 82: Breeding of cowpeas for grain and vegetables
- 1983- 83: Breeding of sorghum crop that generated the crosses emanated with the release of KARI Mtama-1
- 1985-90: Conservation and exchange of Dry land germplasm
- 1987-89: Wild species of grain legumes and underutilized grain legumes. Project funded by the national council for science and technology of Kenya. KSH 122,400.00
- Dry land seed multiplication of food crops under FAO sponsored project
- Onfarm training of farmers in food crop husbandry

- 1994- 2000: Pre and Post harvest improvement of cassava research work and extension by International Institute of Tropical Agriculture, US\$ 40,000 per year.
- 1997-2000: Phase 1: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 2001-03: Phase 2: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 1999-2003: Cassava mosaic disease pandemic mitigation in East and Central Africa (Cassava multiplication in Western and Nyanza provinces) funded by USAID, US\$ 90,000 per year.
- 2007-2010: Developing early bulking cassava varieties with acceptable agronomic and end-user preferences. Funded by Pro-AGRA, US\$ 182,300 for three year.
- 2008 – 2009: Physiological Mechanisms and their Variability for Drought Tolerance in Cassava. Funded by German government (BMZ/GTZ), EURO 60,000.00
- 2009- 2012: Breeding for high beta carotene content in Cassava roots.
- 2010-Present: Coordinating and Certified Seed Production in the Eastern African Agricultural Productivity Project on cassava
- 2012- Present: Developing early bulking cassava varieties with acceptable agronomic and end-user preferences. Funded by Pro-AGRA, US\$ 150,000 for three year.

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1.5 Conferenced/Workshops/Seminars Attended

1.5.1 Conferences Attended

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1.5.1 Workshops Attended

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1.5.1 Seminars Attended

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1.6 Supervision of Postgraduate Students

Fourth Year Research Projects

Graduated

1. Pauline W. Njoroge, **Joseph Kamau**, Peterson Muchemi. **2021**. Screening of selected maize (zea mays) genotypes for resistance to Maize Chlorotic Mottle Virus (M.C.M.V) in Kenya
2. Jeneffer Wamucii, Joseph Kamau, Peterson Muchemi. 2021. Screening Of Selected Maize Genotypes For Resistance To Sugarcane Mosaic Virus (SCMV) in Kenya
3. Godhard Kimani M, Joseph Kamau, Peterson Muchemi 2022. Investigating on drought tolerance among various maize genotypes grown in Kenya

4. Margaret Nyambura, Joseph Kamau, Peterson Muchemi 2022. Identification of resistant maize genotypes (*Zea mays* L.) for sugarcane mosaic virus (SCMV) in Murang'a County
5. Vida Obora Ananga, **Joseph Kamau**, Peterson Muchemi. **2022**. Identification of selected maize (*Zea mays* L) genotypes resistant to Maize Chlorotic Mottle Virus (MCMV) in Kisumu county

1.6.1 Masters Student

Graduated

1. 2011- 2012 Mary Githaiga **AGRI-3-0976-3/2009** Kenya Methodist University: MSc Thesis Title - *Evaluation of New Sweetpotato (Ipomoea batatas) Clones for Root Yield under Different Fertilizer Levels. Graduated*
2. 2016 Lydia Kanyange, REG **NO: I56EA/37692/2016**. Kenyatta University: Thesis Title: Screening of Supa Aromatic Rice (*Oryza Sativa* L.) Population for Blast (*Magnaporthe oryzae*) Resistance At Irri-Esa Burundi. Graduated
3. 2017 Alm-iram Dianga, Msc **I56/CE/27788/2013** Student registered at Kenyatta University .Thesis Title: "Combining ability Analysis for Early Maturity and Yield in Rice (*Oryza sativa* L.) Defended
4. 2018 Valentine Otieno, Msc. **REG. NO: I56/38344/2016**. Student registered at Kenyatta University, Thesis Title " Morphological and Molecular Characterisation of cultivated Dioscorea Species (Yams) in Selected Counties in Kenya" Defended

On Going

1. 2016 John Mwalimu, Msc. **REG.NO. I56/CE/25295/2014**. Student registered at Kenyatta University, Thesis Title: " Morphological and Molecular Characterisation of Graviola in selected Agro-Ecological Regions in Kenya"
2. 2020. Reuben Margaret Wanjiru. **REG. No.I56/CE/21132/2020**. Student Registered at Kenyatta University. Thesis Title: "Morphological and Molecular Characterization of Pumpkin (*Cucurbita* sp.) From Kirinyaga County, Kenya".
3. 2022. Michelle Esther Adhiambo, **Reg. No.I56/CE/21176/2022** Morphological and Molecular Characterization of *Senna didymobotrya* In Uasin Gishu County.

1.6.2 PhD students

Graduated

1. 2022. Ann Mwaura, PhD. I84/31033/2015. Student registered at Kenyatta University, - “Identification of commonly used Medicinal Plants in Kenya Using DNA Barcoding”. on going
2. 2023. Muchemi K. Peterson, PhD Reg. I84/33218/2015. Student registered at Kenyatta University, “Molecular Characterisation of Maize Germplasm and Screening for *Resistance to Maize Lethal Necrosis Disease in Kenya*”.

On Going

1. Jeniffer Muthoni Kariuki PhD **REG. NO 184/33219/201**. Student registered Kenyatta University. Title of the study, “Combining Ability, Molecular Characterization and Screening Inbred Lines of Maize (*Zea Mays*) for *Aspergillus Flavus* Resistance in - Katumani n Machakos County.” *On going*

1.7 Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner, Patents)

2009 Contracted by Midlands Company (Nyandarua) to review pyrethrum production and Identify constraints and challenges phase d by farmers.

2011: Conducting South Sudan Civil servants and processors through the cassava value chain Stakeholders in Kenya

1.8 Community Service and Other Engagements

- Chairman of Nyumba Kumi
- Chairman of Mugutha-Juja Dispensary development committee
- Vice Chairman of KU Dons Welfare

1.9 Affiliation of Professional Bodies

- Kenya Breeders Association
- Member of Kenya Anglican Men Association

2.0 National and International awards and Recognitions

-Nil

2.1 Administrative Positions Held

1. **2023 August.** Appointed **Chairman** Department of Plant Sciences
2. **2021 August. Ag. Chairman,** Department of Plant Sciences
3. **2022 February. Ag. Chairman,** Department of Plant Sciences
4. Genetics section head of Genetics Department of Plant sciences

Duties of Section Coordinators

- Work out teaching allocation and review field courses in consultation with staff members in the Section.

- Chair Section meetings to review the curriculum offered in the Section.

Member of Departmental Curriculum Review Committee

Duties of the Curriculum Review Committee

- Develop new programmes at certificate, diploma, undergraduate and postgraduate levels.
- Review the curriculum of existing courses.
- Review modules for Digital School of Virtual & open e-learning.

Member of the School Post Graduate Board (SPB)

Duties of BPS

- Participate in postgraduate meetings
- Evaluate Postgraduate proposals and Thesis
- Discuss notice of submission of thesis
- Develop school guidelines and requirements
- Organise and manage Postgraduate (MSc and PHD) seminars
- Prepare a schedule of activities for the postgraduate students to fast track their studies.

Chairperson and Post Graduate Students Advisor (BPS)

Duties of BPS

- Consider postgraduate applications to the department wherever called upon by the University.
- Process the postgraduate proposals, progress reports and thesis as per the laid down University procedures.
- Provide the necessary guidance to all postgraduate students in areas of programme and research topic choices.
- To keep records of postgraduate student progress and avail them whenever they are required.
- Prepare a schedule of activities for the postgraduate students to fast track their studies.
- Advise the chairman of the Department on the review and establishment of new postgraduate programmes relevant to the market.

Committee Members Research and Linkages committee

Duties of Linkages and Research Committee

- Initiate and write departmental proposals for donor grants.
- Alert faculty members and students on funding opportunities
- Initiate linkages between Department and other relevant organizations.
- Coordinate joint research activities in the department
- Coordinate joint research activities in the department.
- Identify and promote interdepartmental research linkages
- Establish research linkages regionally and internationally.

Chairperson Exhibition Committee

Duties of the Departmental Exhibition Committee

- To organize and prepare materials for exhibition during University scheduled marketing.

Committee member of Examination Moderation Committee:

Duties of the Moderation Committee

- Moderate Department examination questions and marks when necessary.
- Review Departmental procedures on examination setting, marking and marks processing.
- Review examination invigilation procedures to ensure best practices.
- Organize for departmental meetings for new members of staff and part-time lecturers to orient them on the format of setting exams, and marking and procedures involved in setting and processing of exams.

Committee Members of Field Trips Committee

Duties of the Field Trips Committee

- Draw up a field course budget for the Department and advise the Department on all field course matters.
- Revise field course budget proposals for each semester in line with the field course allocation for the year.

Committee member of Marks Verification Committee

Duties of the Marks Verification Committee

- Check entered marks in all units against respective mark sheets for conformity.
- Prepare a marks verification reports to be submitted to the Deans of the School of Pure & Applied Sciences & School of Education.

Committee members of Departmental staff dispute resolution committee

Duties of the Departmental staff dispute resolution committee

- Resolve work related disputes that may arise in the department among the members of staff.

2.1.1 Recognized university administrative positions

- **2nd Nov. 2020.** Appointed to a team of champions to assist the Digital School Review Blended Learning Modules for uploading on the Learning Management System

2.1.2 Other administrative positions Held

- **2010 2015.** Coordinator of EAAPP/ACAATP Projects in the Ministry of Agriculture, Livestock, Fisheries and Cooperatives
- **1993 -2010** National Coordinator of Root and Tuber Crops Research

2.1.2 Other Community Outreach

2023 – Vice Chairman of Kenyatta University DONS Welfare

2016- Present. Chairman, Nyumba Kumi at Mugutha Juja.

2016 – Present Chairman, Acacia Self- help Group

2014 – Present. Chairman, Shalu Self- help group

2010 – 2022. Chairman, Mugutha community dispensary

Teaching Experience

I have been a member of Kenyatta University academic staff since February 2015 teaching genetics and Plant breeding units at the Department of Plant Sciences. Together with teaching I have been supervising Fourth year projects, Msc and PhD students. In addition examining PhD Thesis and participating in post graduate defence as a board member..

Research projects written and funded:

- 2007-2010: Developing early bulking cassava varieties with acceptable agronomic and end-user preferences. Funded by Pro-AGRA , US\$ 182,300 for three year.
- 2009- 2012: Breeding for high beta carotene content in Cassava roots.
- 2008 – 2009: Physiological Mechanisms and their Variability for Drought Tolerance in Cassava. Funded by German government (BMZ/GTZ), EURO 60,000.00
- 2001-03: Phase 2: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 1999-2003: Cassava mosaic disease pandemic mitigation in East and Central Africa (Cassava multiplication in Western and Nyanza provinces) funded by USAID, US\$ 90,000 per year.
- 1997-2000: Phase 1: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 1994- 2000: Pre and Post harvest improvement of cassava research work and extension by International Institute of Tropical Agriculture, US\$ 40,000 per year.
- 1987-89: Wild species of grain legumes and under utilised grain legumes. Project funded by the national council for science and technology of Kenya. KSH 122,400.00
Dry land seed multiplication of food crops under FAO sponsored project
On farm training of farmers in food crop husbandry
- 1985-90: Conservation and exchange of Dry land germplasm
- 1983- 83: Breeding of sorghum crop that generated the crosses emanated with the release of KARI Mtama-1
- 1981- 82: Breeding of cowpeas for grain and vegetables

Research projects written and funded:

- 1981- 82: Breeding of cowpeas for grain and vegetables
- 1983- 83: Breeding of sorghum crop that generated the crosses emanated with the release of KARI Mtama-1
- 1985-90: Conservation and exchange of Dry land germplasm
- 1987-89: Wild species of grain legumes and underutilized grain legumes. Project

funded by the national council for science and technology of Kenya. KSH 122,400.00

Dry land seed multiplication of food crops under FAO sponsored project
Onfarm training of farmers in food crop husbandry

- 1994- 2000: Pre and Post harvest improvement of cassava research work and extension by International Institute of Tropical Agriculture, US\$ 40,000 per year.
- 1997-2000: Phase 1: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 2001-03: Phase 2: Accelerated multiplication and distribution of improved cassava varieties in Western and Nyanza provinces, funded by The Rockefeller Foundation and The Gatsby Charitable Organisation, UK, US \$ 200,000
- 1999-2003: Cassava mosaic disease pandemic mitigation in East and Central Africa (Cassava multiplication in Western and Nyanza provinces) funded by USAID, US\$ 90,000 per year.
- 2007-2010: Developing early bulking cassava varieties with acceptable agronomic and end-user preferences. Funded by Pro-AGRA, US\$ 182,300 for three year.
- 2008 – 2009: Physiological Mechanisms and their Variability for Drought Tolerance in Cassava. Funded by German government (BMZ/GTZ), **EURO 60,000.00**
- 2009- 2012: Breeding for high beta carotene content in Cassava roots.
- 2010-Present: Coordinating and Certified Seed Production in the Eastern African Agricultural Productivity Project on cassava
- 2012- Present: Developing early bulking cassava varieties with acceptable agronomic and end-user preferences. Funded by Pro-AGRA, **US\$ 150,000** for three year.

2017 – 2021: Ann Mwaura, PhD. **I84/31033/2015**. Student registered at Kenyatta University, - *“Identification of commonly used Medicinal Plants in Kenya Using DNA Barcoding”*. Funded by National research Fund (NRF), **EURO 16260.00**

2018 Muchemi K. Peterson, PhD **Reg. I84/33218/2015**. Student registered at Kenyatta University, *“Molecular Characterisation of Maize Germplasm and Screening for Resistance to Maize Lethal Necrosis Disease in Kenya”*. Funded by German government (DAAD), **EURO 14414.60**

Consultancy

- 2009 Contracted by Midlands Company (Nyandarua) to review pyrethrum production and Identify constraints and challenges phase d by farmers.
- 2011: Conducting South Sudan Civil servants and processors to the cassava value chain stakeholders in Kenya

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