

CURRICULUM VITAE

1.1. Personal Profile

1.1.1 Personal Details

Name : Dr. Wilson M. Thagana

PF. No.: 7369

Department: Agricultural Science and Technology

Designation: Senior Lecturer

Email: wtmuriithi@mail.com; thagana.wilson@ku.ac.ke

Mobile: 0722697576

Area of Specialization: Plant Breeding and Biotechnology

Research Interests:

-Application of Biotechnology Tools in Crop Improvement

-Breeding for Disease, Drought and Salinity Tolerance

Google Scholar:

ORCID:

1.1.2 Academic & Professional Qualification

Academic Qualifications

- 2009: PhD in Plant Breeding, Egerton University, Kenya
- 1992: MSc (Experimental Plant Morphogenesis) University of Calgary, Canada
- 1983: BSc (Agriculture) University of Nairobi, Kenya

Professional Courses

- 9th April, 2019: Training on Corruption Prevention Strategies by Ethics and Anticorruption Commission.
- 8th and 9th January, 2018: Certificate of completion of course titled “Role of Chairpersons in The Implementation of University Policy,” KUCC Main Hall.
- 9th May, 2017: Certificate in Risk Based Thinking, SGS certificate 1810/17, Nairobi, Kenya.
- 14th September, 2016: Awareness Training on ISO 9001:2015, Quality Management Systems (QMS) Standards, Kenyatta University.
- 27th to 28th June, 2016: Training on National Variety Release Process in Kenya, Maanzoni Lodge, Machakos County.
- 28th May and 14th November, 2013: Teaching Methods, Kenyatta University.
- 8-11/08/2010, Curriculum Development in Agricultural Education and Extension, Kenyatta University.
- 11th-15 April, 2011: Certificate of facilitation in the Agricultural Interns Training Workshop organized by Kenyatta University and the Farmer Voice Radio Initiative.
- 28th June - 2nd July 2010: Certificate of facilitation in the Agricultural Interns Training Workshop organized by Kenyatta University and the Farmer Voice Radio Initiative.
- 23-26/02/2011: EASCOM-Seed matters, Entebbe, Uganda

- 6/01-5/02/09: Certificate in chickpea breeding and seed production. International Crops Research Institute for the Semi-arid Tropics (ICRISAT), Patancheru, India.
- 21/9-30/9/2008: Attachment-Association of the Rajasthan Jojoba Plantation Research Project (AJORP) Jaipur, Rajasthan, India
- December, 2006: Certificate Basic Security in the Field-Staff Safety, Health and Welfare, United Nations Course
- 14/8-1/9/2006: Certificate in molecular marker techniques for development of improved crop varieties. IAEA/AFRA Regional Training Course, ARC-LNR, Roodeplaat, Pretoria, South Africa
- 3rd – 14th October, 2005: Marker Assisted Selection and Mutation Breeding, Njoro, Kenya
- 16/2-27/2/2004: Certificate in Advances in Molecular Characterization for Crop Improvement. Trainer, Dr. Uri Lavi, Aro-Volcani center, Israel, IAEA-expert, Njoro, Kenya.
- 15/12-20/12/2003: Certificate in How to Write a Convincing Proposal. Trainer, Dr. Robert K. Obura, Egerton University, ISNAR-expert, Njoro, Kenya.
- 4th April-17th May, 2002: Certificate in Computer Applications, Njoro, Kenya
- 18/5-22/5/98: Certificate in Gender Issues in Agricultural Research and Extension. NAHRC, Naivasha, Kenya.
- 18/9-18/11/96: Certificate in Sunflower Breeding & Practical Attachment. Directorate of Oilseed Research (DOR), Hyderabad, India.
- 6/5-29/6/96: Certificate in Oilseed Crops Development. KARI/CIMMYT/Egerton University, Njoro, Kenya.
- 26/9-7/10/1994: Training workshop on concepts and Methodologies of Farming System Approach to Research, Extension and Training. Bamburi Beach Hotel, Mombasa, Kenya.
- 15/8-19/8/1994: Priority Setting Training Workshop. NPBRC, Njoro, Kenya.
- 1993 Soyabean Diagnostic Surveys. Hotel Kunste, Nakuru, Kenya.
- 9/8-14/8/1993: Oilcrops Diagnostic Surveys. NPBRC, Njoro, Kenya.
- 5th April, 1990: Certificate in Radiation Protection, University of Calgary, Canada
- 1989: PGD (Crop Science), University of Saskatchewan, Saskatchewan, Canada

1.1.3 Employment History

- 1/3/2021 to date: Associate Dean, School of Agriculture and Enterprise Development (SAED).
- 25/2/2019 to 1/3/2021: Director, Kitui Campus, Kenyatta University
- 24/08/2017 to 30/9/2018: Chairman, Department of Agricultural Science and Technology, Kenyatta University.
- 27/03/2015 to date: Senior Lecturer, Senior Lecturer on permanent and pensionable terms, Department of Agricultural Science and Technology, Kenyatta University.

- 28/02/13 to 27/03/2015: Lecturer on permanent and pensionable terms, Department of Agricultural Science and Technology, Kenyatta University.
- 18/01/2010 to 28/02/13: Lecturer on probation terms, Department of Agricultural Science and Technology, Kenyatta University.
- 2001-2010: Senior Research Officer, Kenya Agricultural and Livestock Research Institute (KALRO)
- 1993-2001: Research Officer I, KALRO-Njoro
- 1983-1993: Research Officer II, KEPHIS-Lanet
Research on variety characterization and seed quality.
- 1983: Biology teacher. Town High School, Nakuru, Kenya.
- 1979: Biology and Mathematics teacher. Kiganjo Secondary School, Kiganjo, Kenya.

1.1.3 Achievements

- External Examiner, Department of Animal Health and Production, Mount Kenya University and also
- Postgraduate examiner Jomo Kenyatta University of Agriculture and Technology, University of Nairobi and Egerton University.
- Published 24 articles in refereed Journals.
- Presented 22 papers in learned conferences in Nigeria, South Africa, Mozambique, Uganda, Egypt and Kenya.
- Won six grants four of which were granted after being employed at Kenyatta University.
- Won Innovative grant
- Three innovative products are in the process of being patented. I have been granted 12 awards in various categories including recognition as the 19th overall best Kenyatta University lecturer in performance contract assessment in 2010/11 academic year.

1.2 Publications

1.2.1 Referred Journals

- Gimase, J.M, Thagana, W.M, Omondi, C.O, Cheserek, J.J, and E. K. Gichuru, (2021). Genetic Relationship and the Occurrence of Multiple Gene Resistance to Coffee Berry Disease (*Colletotrichum kahawae* Waller & Bridge) within Selected *Coffea arabica* Varieties in Kenya. African Journal of Agricultural Research Vol. 15(1), pp 39-48. DOI 10.5897/AJPS2020.2074
- Wakhanu, J, Nyambaka, H, Kimiywe, J, Nawiri, M and W.M. Thagana. (2020). Nutrition-Sensitive Interventions with African Indigenous Vegetables among School Going Children in Machakos County, Kenya. Journal of Medicinally Active Plants 9, (3):111-125. Doi: <https://doi.org/10.7275/15kg-3r28>
- Gimase, J.M, Thagana, W.M, Omondi, C.O, Cheserek, J.J, Gichimu, B.M, and E. K. Gichuru, (2020). Quantitative trait loci (QTL) mapping of resistance to coffee berry disease (*Colletotrichum kahawae* Waller & Bridge) in *Coffea*

arabica L. Variety Sudan. African Journal of Agricultural Research Vol. 16(8), pp 1184-1194. DOI 10.5897/AJAR2020.14842

- Gimase, J.M, Thagana, W.M, Omondi, C.O, Cheserek, J.J, Gichuru, E.K, Gichimu, B.M, Ziyomo, C and C.H. Sneller. (2020). Genome-Wide Association Study identify the Genetic loci conferring resistance to Coffee Berry Disease (*Colletotrichum kahawae*) in Coffea Arabica Var. Rume Sudan. Euphytica (2020) 216:86. <https://doi.org/10.1007/s10681-020-02621-x>
- Nyaga, C, Gowda M, Beyene, Y, Muriithi, W.T, Burgueno. J, Toledo, F, Makumbi, D, Olsen, M.S, Das, B, Suresh, L.M, Bright, J.M and B.M. Prasanna, (2020). Hybrid Breeding for MLN Resistance: Heterosis, Combining Ability, and Hybrid Prediction. Plants 2020,9,468:1-15.
- Nyaga, C, Gowda M, Beyene, Y, Muriithi, W.T, Olsen, M.S, Suresh, L.M, Makumbi,D, Jumbo, M.B, Das,B and B.M. Prasanna, . (2019). Genome-Wide Analyses and Prediction to MLN in Large Tropical Maize Germplasm. Genes 2020,11,16;doi:10.3390/genes: 1-16
- Wakhanu, J, Nyambaka, H, Kimiywe, J, Nawiri, M and W.M. Thagana. (2019). Consumption of African Indigenous Vegetables Improves Children's Body Fat Free Mass in Machakos County, Kenya. Journal of Food Science and Engineering 9: 305-319. doi: 10.17265/2159-5828/2019.08.002
- Gimase, J.M, Thagana, W.M, Omondi, C.O and J.M. Ithiru. (2019). Evaluation of Coffee Berry Disease Resistance (*Colletotrichum kahawae*) in F₂ Populations Derived from Arabica Coffee Varieties Rume Sudan and SL 28. Journal of Plant Breeding and Crop Science 11(9): 225-233 ISSN 2006-9758.
- Henga, S.A, Thagana, W.M and M.W. Githendu. (2019). Rice Seedlings, Vegetative Growth and Vigour as Influenced by Seed Storage Period. African Journal of Education, Science and Technology 5(2): 92-100.
- Henga, S.A, Thagana, W.M and M.W. Githendu. (2019). Assessing Seed Vigor Characters of Selected Rice (*Oryza sativa* L.) Genotypes Using Accelerated Ageing Method. Asian Journal of Agricultural and Horticultural Research 4(3): 1-5.
- Ndung'u, F.W, Thagana, W.M and D.K. Ndung'u. (2019). Yield of the Testcrosses across the Different Environments. International Journal of Agriculture 4(1): 15-27 ISSN 2520-4629.
- Ndung'u, F.W, Thagana, W.M and D.K. Ndung'u. (2019). Heterotic Orientation of the Inbred Lines. International Journal of Agriculture 4(1): 1-14 ISSN 2520-4629.
- Kariithi Tabitha, Thagana Wilson and P. Gweyi-Onyango Joseph (2018). Influence of Organic and Inorganic Manures on Macro-Nutrients, Micro-Nutrients and Anti-Nutrients in two Amaranth spp in Kiambu County, Kenya. Asian Journal of Research in Crop Science 1(1): 1-17.
- Kariithi Tabitha, Thagana Wilson and P. Gweyi-Onyango Joseph (2017). Effect of Organic and Inorganic Fertilizers on Soil Chemical Properties of Rhizosphere in Kiambu County, Kenya. Asian Journal of Agriculture 7(4): 1-13. Article no. ARJA.37081 ISSN 2456-561
- Kirui, K.R, Kibe, A.M, Wagara, I.N, Thagana, M.W. (2017). Effects of Thiram and Carbendazin Application Rates on Growth and Grain Yield of Chick Pea (*Cicer arietinum*) in Kenya. World Journal of Agricultural Research 5(6): 284-

291. DOI: 10.12691/wjar-5-6-1

- Kirui, K.R, Kibe, A.M, Wagara, I.N, Thagana, M.W. (2016). Effect of Genotype Resistance and Fungicide Rates on Fusarium Wilt Incidence of Chickpea. *Adv. Plants Agric Res.* 5(5): 624-628. DOI: 10.15406/apar.2016.05.00193
- Thagana, W.M. (2016). Appropriate Plant Growth Regulators and Genotypes for Propagation of Jojoba (*Simmondsia chinensis* L.) *International Journal of Current Research (IJCR)* 8(1): 24876-24882 ISSN: 24876-24882 (Online)
- Shadrack Inoti, Lulther Lulandala, Shabani Chamshama, Wilson Thagana and Rob Dodson. (2016). Effect of some Agricultural Practices on Field Performance of Jojoba (*Simmondsia Chinensis* L.) Seedlings in Semi-Arid Areas of Voi, Kenya. *Merit Res. Agric. Sci. soil Sci.* 4(1): 014-022.
- Onyango, R. and W.M. Thagana. (2016). Assessment of Sweet Potato Propagules for Re- infection by Various Viruses in East Kamagak Location – Homa Bay County-Kenya. *American Journal of Experimental Agriculture (AJEA)* 11(1): 1-9.
- Onyango, R. and W.M. Thagana (2015). Yield and Nutritive Attributes Are Not Considered by Farmers in Choice of Sweet Potato Varieties Grown in East Kamagak Location –Homabay County-Kenya. *The International Journal of Technoledge* 3(9): 69-73.
- S.K. Inoti, S.A.O. Chamshama; W.M. Thagana; L.L.L. Lulandala and R. Dodson. (2015). Sex Determination of Young Nursery Jojoba (*Simmondsia Chinensis* L) Plants using Morphological Traits in Semi-Arid Areas of Voi, Kenya. *Journal of Biology, Agriculture and Healthcare* 5(16): 113-123.
- S.K Inoti, S.A.O Chamshama, R Dodson, W.M Thagana and L.L.L Lulandala. (2015). Studies on Seed Size and Storage on Germination and Performance of Young Jojoba (*Simmondsia Chinensis* L) Seedlings in Semi-arid Areas of Kenya . *Journal of Biology, Agriculture and Healthcare* 5(12): 10-16.
- J.M. Gimase, W.M. Thagana, D.T. Kirubi, E.K. Gichuru and C. W. Kathurima. (2014). Beverage quality and Biochemical Attributes of Arabusta Coffee and their Parental Genotypes. *African Journal of Food Science* 8(9): 456-464.
- J.M. Gimase, W.M. Thagana, D.T. Kirubi, E.K. Gichuru and B.M. Gichimu. (2014). Genetic Characterization of Arabusta Coffee Hybrids and Their parental Genotypes Using Molecular Markers. *Plant Cell Biotechnology and Molecular Biology* 15(1&2): 31-42.
- J. A. Momo, **W.M. Thagana** and Mukiri Githendu. (2013). Effect of Withholding Irrigation Water after Complete Heading on Rice Yield and Components in Mwea-Kenya. *J. Agri. Sci.* 4(2): 69-75
- **W.M. Thagana**, C.M. Ndirangu, E.O. Omolo and T.C. Riungu. (2013). Variability in M₂ Generations and Characteristics of Advanced Mutant Lines of Rapeseed (*Brassica napus* L.). *J. Agri. Sci.* 4(2): 83-86
- **W. M. Thagana**, M. Gethi, Riungu, J. W. Kamundia and P. Mbehero. (2013). Seed Abortion and Numerical Components of Seed Yield of Soyabean (*Glycine max* L. Merr.) in Three Contrasting Agroecologies. *J. Agri. Sci.* 4(1): 1-5
- **Thagana, W.M.**, C.M. Ndirangu, E.O. Omolo and T.C. Riungu. (2007). Performance of Rapeseed (*Brassica napus* L) Hybrids and Parental Mutant Lines in 3 Environments . *Egerton journal.* (In Press).

- **Muriithi, W.T**, Indra, S. H.,Yeung, E.C. and Thorpe, T.A. (1993). Plantlet regeneration in Chir Pine (*Pinus roxburghii* Sarg.): Morphogenesis and Histology. Forest Ecology and Management 57: 141-160.

1.2.3 Patented Invention or Innovations

- Principal Investigator for a research project funded by Kenyatta University Vice Chancellor's grant for the project, Commercialization of Locally Developed Agricultural Inputs-Foliar Fertilizers, Hydroponic Nutrient Solutions and Rooting Powders.
- Various key stakeholders support (**Evidence is available**) commercialization of the **innovations** namely Foliar Fertilizers, Hydroponic Nutrient Solutions and Rooting Powders which are in the process of being patented.

1.2.6 Refereed Learning Modules

- KST 845: Population and Quantitative Genetics (Blended module 2021).
- KST 209: Principles of Crop Production (Blended module 2021).
- KST 209: Principles of Crop Production.
- KST 206: Principles of Agricultural Biotechnology.
- KST 130: Field Course.
- KST 813: Agricultural Biotechnology.
- KST 835: Utilization of Plant Genetic Resources.
- KST 845: Population and Quantitative Genetics.
- KST 850: Seed Physiology and Biotechnology.
- KST 532: Plant Biotechnology and Molecular Biology Module, Edited by Joseph Gweyi.
- KST 513: Agricultural Biotechnology Module, Edited by Mukiri wa Githendu.

1.2.7 Reviewed Conference Papers

- A.J. Wakhanu, H. Nyambaka, J. Kimiyiwe, M.P. Nawiri and **W.M. Thagana**. Nutrition-Sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School-Going Children in Kenya. The International Food Safety Conference, 20th November-24th May, 2019. BSSC, Kenyatta University..
- S.A. Henga, M.W. Githendu and **W.M. Thagana**. Assessing the Seed Vigour of Selected Rice (*Oryza sativa* L.) Genotypes Using Accelerated Ageing Method 2nd SAED Biennial Conference, 29th November to 2nd December 2016. BSSC, Kenyatta University.
- P.W. Wanyama, **W.M. Thagana** and R.M. Otysula. Performance of Soyabean (*Glycine max.* L. Merr.) Varieties When Intercropped With Maize and as a Sole Crop,
- Nzamu M. Janet, **W.M. Thagana**, S. Mugo and V. Chaikam. Determination of Agronomic Characters of Tropicalized Adapted Inducer Lines 2nd SAED Biennial Conference, 29th November to 2nd December 2016. BSSC, Kenyatta University.

- **W.M Thagana.** Identification of SSR Markers associated with Cassava Mosaic Disease in Kenya, ASACSES conference, Nigeria, 2nd -5th November, 2015, ECOWAS Parliament Building, Abuja, Nigeria.
- S.K Inoti, S.A.O Chamshama, R Dodson, **W.M Thagana** and L.L.L Lulandala: Effect of Seed Size on Germination and Early Growth of Jojoba in Semi-arid Areas of Kenya, 11th African Crop Science Society Conference, 13th -17th October 2013. Imperial Botanical Beach Hotel, Entebbe-Uganda.
- Momo, J. A., **W.M. Thagana** and Mukiri Githendu: Effect of Withholding Irrigation Water after Complete Heading on Rice Yield and Components in Mwea, 11th African Crop Science Society Conference, 13th -17th October 2013. Imperial Botanical Beach Hotel, Entebbe-Uganda.
- J.M. Gimase, **W.M. Thagana**, D.T. Kirubi, E.K. and Gichuru and B.M. Gichimu: Characterization of Arabusta (*Coffea arabica* L. x *Coffea canephora* Pierre) Coffee and it's Parental Genotypes using Molecular Markers, 11th African crop Science Society Conference, 13th -17th October 2013. Imperial Botanical Beach Hotel, Entebbe-Uganda.
- Anyang R T, **Thagana W** and Gweyi-Onyango J P: Effect of Genotype, Plant Spacing and Weeding Regimes on Weed Density and Yields of Upland Rice in Uganda, 11th African Crop Science Society Conference, 13th -17th October 2013. Imperial Botanical Beach Hotel, Entebbe-Uganda.
- **Thagana, W. M**, R.O. Oduor and W. M. Muiuru: Enhancing Cassava Productivity Through Host plant Resistance Breeding Against Cassava Mosaic Disease and Cassava Brown Streak Disease using Genetic Engineering and Marker Assisted Selection-a Kenyan project. The 12th International Plant Virus Epidemiology Symposium (IPVE), 28/1/13 -1/02/13. Arusha-Tanzania.
- Onyango R.A, **Thagana, W.M**, Karanja L and Gweyi-Onyango J P: Characterization of Sweet Potato [*Ipomea batatas* (L)] Landraces using Morphological and DNA markers in East Kamagak Location of Rachuonyo District, Bondo University College (BUC), 4th-7th December 2012, Bondo-Kenya.
- **W. M. Thagana**, M. Gethi, Riungu, J. W. Kamundia and P. Mbehero: Occurrence of seed abortion and numerical components of seed yield of soyabean (*Glycine max* L. Merr.) in three contrasting environments, Minia International Conference for Agriculture and Irrigation in the Nile Basin, 25th-29th March, 2012. El Minia-Egypt.
- **W.M. Thagana**, Riungu, T.C., Inoti, S.K., Kamundia, J.W., Ndirangu, C.M., Omolo, E.O., Gethi, M., Mwangi, J. G., L. Lenjo and R. Dodson: Selection and characterization of superior bushes of Jojoba (*Simmondsia chinensis* [Link] Schneider) for ASALs in Kenya, KARI mini conference , 7th to 9th April, 2010. Nairobi.
- **Thagana, W.M.**, Gethi, M., Mursoy, R., Ganga Rao and S. Silim: Chickpea - a promising new food legume crop for drought prone cool areas of Kenya, 9th ACSS Conference, 28th September-1st October, 2009. Cape Town-South Africa.
- **Thagana, W.M.**, C.M. Ndirangu, E.O. Omolo and T.C. Riungu: Comparison of phenotypic characters of mutant lines of rapeseed (*Brassica napus* L) with the original parents, 11th KARI Scientific Conference, November 10-14, 2008. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M.**, C.M. Ndirangu, E.O. Omolo and T.C. Riungu: *In vitro* embryo culture and immature seed germination techniques for rapid generation advance in

soyabean [*Glycine max* (L.) Merrill, 10th KARI Scientific Conference, November 12 -17, 2006. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.

- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo and T.C. Riungu: Variability in M₂ generations and characteristics of selected advanced mutant lines of rapeseed, 10th KARI Scientific Conference, November 12 -17, 2006. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo, T.C. Riungu and M.G. Kinyua: Characterization and genetic relationships of rapeseed (*Brassica napus* L.) accessions, 7th African Crop Science Society Conference, December, 2005. Entebbe-Uganda.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo, T.C. Riungu and M.G. Kinyua: Effect of irradiation on M₁ generations of rapeseed (*Brassica napus* L.), 7th African Crop Science Society Conference, December, 2005. Entebbe-Uganda.
- **Thagana, W.M,** Riungu, T.C., Inoti, S.K., Omolo, E.O., Ndirangu, S.M., Nyakwara, Z.K., Kamundia, J.W. and Arama, P: Introduction and status of Jojoba *Simmondsia chinensis* (Link) Schneiider production in Kenya, 9th KARI Scientific Conference, November 8-12, 2004. KARI Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M** and Kamundia, J.W: Genotype-environment interactions and stability estimates for sunflower (*Helianthus annuus* L.) varieties grown in diverse environments in Kenya, 2nd International Symposium on Sunflower in Developing Countries, February 18-21, 2002, Benoni, Johannesburg-South Africa.
- Riungu, T.C and **Thagana, W.M:** Holistic approach in the dissemination of technologies in Lare division, Nakuru district, NPBRC-Njoro/Egerton University Conference, 2001. Njoro.
- **Thagana, W.M** and Riungu, T.C: The status of Kenya in the Global production and supply of oilseed and oilseed products, 7th KARI Scientific Conference, November, 13-17, 2000. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M,** Nderitu, S.K and Riungu, T.C: Characteristics of Sunflower (*Helianthus annuus* L.) varieties grown in Kenya, Symposium on Sunflower and Other Oilseed Crops in Developing Countries, February 9-12, 1999. Maputo-Mozambique.
- **Thagana, W.M,** Yegon, P., Maina, M.P.D., Kamundia, J.W. and Riungu, T.C: Yield performance of sunflower (*Helianthus annuus* L.) genotypes on selfing and outcrossing, 6th KARI Scientific Conference, November 9-13, 1998. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M** and Ndegwa, P: The effect of seed size on germination of sunflower (*Helianthus annuus* L.) in the laboratory, 5th KARI Scientific Conference on October, 14-16, 1996. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.

1.2.10 Consultancy and Project Reports

2017 to date

- Involved in the development of degree programmes at Mount Kenya University as an external examiner.

8th-10th January, 2018

- Was appointed as an expert in Laboratory Manual Review and Consolidation at Mount Kenya University.
17th-18th June, 2013
- Was involved in the development of a national engagement plan for adoption of Harmonized Eastern Africa Seed Standards, Regulations and Procedures (HESSREP)

6th to 10th May, 2013
- Was involved in ratification of the project titled ‘Enhancing Adoption of Harmonized Seed Standards, Regulations and Procedures in Eastern and Central Africa’.
7th to 10th March 2011:
- Was involved in the development of the Strategic Plan Implementation Framework for the Plant Breeders Association of Kenya (PBAK).
4th-8th January 2011
- Was involved in the development of the Strategic Plan for the Plant Breeders Association of Kenya (PBAK).
February 2010
- Was involved in the development of a chickpea leaflet titled ‘Chickpea: The choice food legume for ensuring food security in the dry highlands lands of Kenya’ for KARI.

1.2.12 Refereed Exhibitions and Performances

- Was selected by the UniBRAIN/PanAAC secretariat to participate in exhibition of commercial products organized by UniBRAIN/PanAAC Fair on 26th-27th November, 2010, Hilton Hotel, Nairobi. My exhibition was titled ‘Commercialization and Utilization of Jojoba (*Simmondsia chinensis* [Link] Schneider) as a basis for Industrialization and Income Generation in ASALS’

1.2.13 Other Publications

- Published a leaflet titled “Make More Money Grow Sunflower”
- Was involved in the development of a chickpea leaflet titled ‘Chickpea: The choice food legume for ensuring food security in the dry highlands lands of Kenya’ for KARI.

1.2.14 Editorship of a book or Conference Proceedings

- Member of the Secretariat that edited papers and the proceedings of the International Food Safety Conference, 20th November-24th May, 2019. Kenyatta University, Nairobi.
- Member of the Secretariat that edited papers and the proceedings of the 2nd SAED Biennial International Conference, 29th November-2nd December, 2016; 2019. Kenyatta University, Nairobi.
- As the chairman, PBAK edited PBAK Strategic Plan Implementation Framework from 7th to 10th March 2011 at KARI-Thika, Thika.

- As the chairman, PBAK edited PBAK Strategic Plan Implementation from 4th-8th January 2011 at Antonioz Hotel, Naivasha.

1.2.15 Scholarly Presentations at Conferences/Workshops/Seminars Conferences

- A.J. Wakhanu, H. Nyambaka, J. Kimiyiwe, M.P. Nawiri and **W.M. Thagana**. Nutrition-Sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School-Going Children in Kenya. The International Food Safety Conference, 20th November-24th May, 2019. BSSC, Kenyatta University..
- S.A. Henga, M.W. Githendu and **W.M. Thagana**. Assessing the Seed Vigour of Selected Rice (*Oryza sativa* L.) Genotypes Using Accelerated Ageing Method 2nd SAED Biennial Conference, 29th November to 2nd December 2016. BSSC, Kenyatta University.
- P.W. Wanyama, **W.M. Thagana** and R.M. Otysula. Performance of Soyabean (*Glycine max.* L. Merr.) Varieties When Intercropped With Maize and as a Sole Crop,
- Nzamu M. Janet, **W.M. Thagana**, S. Mugo and V. Chaikam. Determination of Agronomic Characters of Tropicalized Adapted Inducer Lines 2nd SAED Biennial Conference, 29th November to 2nd December 2016. BSSC, Kenyatta University.
- **W.M Thagana**. Identification of SSR Markers associated with Cassava Mosaic Disease in Kenya, ASACSES conference, Nigeria, 2nd -5th November, 2015, ECOWAS Parliament Building, Abuja, Nigeria.
- Anyang R T, **Thagana W** and Gweyi-Onyango J P: Effect of Genotype, Plant Spacing and Weeding Regimes on Weed Density and Yields of Upland Rice in Uganda, 11th African Crop Science Society Conference, 13th -17th October 2013. Imperial Botanical Beach Hotel, Entebbe-Uganda.
- **Thagana, W. M**, R.O. Oduor and W. M. Muiru: Enhancing Cassava Productivity Through Host plant Resistance Breeding Against Cassava Mosaic Disease and Cassava Brown Streak Disease using Genetic Engineering and Marker Assisted Selection-a Kenyan project. The 12th International Plant Virus Epidemiology Symposium (IPVE), 28/1/13 -1/02/13. Arusha-Tanzania.
- Onyango R.A, **Thagana, W.M**, Karanja L and Gweyi-Onyango J P: Characterization of Sweet Potato [*Ipomea batatas* (L)] Landraces using Morphological and DNA markers in East Kamagak Location of Rachuonyo District, Bondo University College (BUC), 4th-7th December 2012, Bondo-Kenya.
- **W. M. Thagana**, M. Gethi, Riungu, J. W. Kamundia and P. Mbehero: Occurrence of seed abortion and numerical components of seed yield of soyabean (*Glycine max* L. Merr.) in three contrasting environments, Minia International Conference for Agriculture and Irrigation in the Nile Basin, 25th-29th March, 2012. El Minia-Egypt.
- **W.M. Thagana**, Riungu, T.C., Inoti, S.K., Kamundia, J.W., Ndirangu, C.M., Omolo, E.O., Gethi, M., Mwangi, J. G., L. Lenjo and R. Dodson: Selection and characterization of superior bushes of Jojoba (*Simmondsia chinensis* [Link] Schneider) for ASALs in Kenya, KARI mini conference , 7th to 9th April, 2010. Nairobi.
- **Thagana, W.M.**, Gethi, M., Mursoy, R., Ganga Rao and S. Silim: Chickpea - a promising new food legume crop for drought prone cool areas of Kenya, 9th ACSS Conference, 28th September-1st October, 2009. Cape Town-South Africa.

- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo and T.C. Riungu: Comparison of phenotypic characters of mutant lines of rapeseed (*Brassica napus* L.) with the original parents, 11th KARI Scientific Conference, November 10-14, 2008. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo and T.C. Riungu: *In vitro* embryo culture and immature seed germination techniques for rapid generation advance in soyabean [*Glycine max* (L.) Merrill, 10th KARI Scientific Conference, November 12 -17, 2006. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo and T.C. Riungu: Variability in M₂ generations and characteristics of selected advanced mutant lines of rapeseed, 10th KARI Scientific Conference, November 12 -17, 2006. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo, T.C. Riungu and M.G. Kinyua: Characterization and genetic relationships of rapeseed (*Brassica napus* L.) accessions, 7th African Crop Science Society Conference, December, 2005. Entebbe-Uganda.
- **Thagana, W.M.,** C.M. Ndirangu, E.O. Omolo, T.C. Riungu and M.G. Kinyua: Effect of irradiation on M₁ generations of rapeseed (*Brassica napus* L.), 7th African Crop Science Society Conference, December, 2005. Entebbe-Uganda.
- **Thagana, W.M,** Riungu, T.C., Inoti, S.K., Omolo, E.O., Ndirangu, S.M., Nyakwara, Z.K., Kamundia, J.W. and Arama, P: Introduction and status of Jojoba *Simmondsia chinensis* (Link) Schneiider production in Kenya, 9th KARI Scientific Conference, November 8-12, 2004. KARI Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M** and Kamundia, J.W: Genotype-environment interactions and stability estimates for sunflower (*Helianthus annuus* L.) varieties grown in diverse environments in Kenya, 2nd International Symposium on Sunflower in Developing Countries, February 18-21, 2002, Benoni, Johannesburg-South Africa.
- Riungu, T.C and **Thagana, W.M:** Holistic approach in the dissemination of technologies in Lare division, Nakuru district, NPBRC-Njoro/Egerton University Conference, 2001. Njoro.
- **Thagana, W.M** and Riungu, T.C: The status of Kenya in the Global production and supply of oilseed and oilseed products, 7th KARI Scientific Conference, November, 13-17, 2000. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M,** Nderitu, S.K and Riungu, T.C: Characteristics of Sunflower (*Helianthus annuus* L.) varieties grown in Kenya, Symposium on Sunflower and Other Oilseed Crops in Developing Countries, February 9-12, 1999. Maputo-Mozambique.
- **Thagana, W.M,** Yegon, P., Maina, M.P.D., Kamundia, J.W. and Riungu, T.C: Yield performance of sunflower (*Helianthus annuus* L.) genotypes on selfing and outcrossing, 6th KARI Scientific Conference, November 9-13, 1998. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.
- **Thagana, W.M** and Ndegwa, P: The effect of seed size on germination of sunflower (*Helianthus annuus* L.) in the laboratory, 5th KARI Scientific Conference on October, 14-16, 1996. KARI-Headquarters, Kaptagat Road, Loresho, Nairobi.

Workshops and seminars

- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Nakuru 10th to 11th May, 2017.
- Attended National Variety Release Committee (NVRC), KEPHIS Headquarters, Nairobi 15th June, 2016.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Nakuru 19th to 20th April, 2016.
- Attended National Variety Release Committee (NVRC), KEPHIS Headquarters, Nairobi 22nd March, 2016.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Nakuru 2nd to 3rd December, 2015.
- Attended workshop to discuss the Pasture National Performance Trials (NPT), KEPHIS-Headquarters, September 17, 2015.
- Attended Special National Variety Release Committee (NVRC) meeting, KEPHIS Headquarters, Nairobi 10th June, 2015.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Nakuru 6th to 7th May, 2015.
- Attended 3rd Steering committee meeting for Science and Technology Research Partnership for Sustainable Development (SATREPS), KALRO Headquarters, 24th April, 2015.
- Attended National Variety Release Committee (NVRC), Kilimo House, Nairobi 10th June 2014.
- Attended inception workshop for the project on Conservation of Plant Genetic Resources for Food and Agriculture funded by UNDP, Laico Regency hotel, Nairobi 5th June 2014.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Nakuru 19th to 30th April 2014.
- Attended Guelph East Africa (GEA) Agriculture and Agribusiness for Food Security in East Africa Workshop, Serena Hotel, Dar es Salaam, Tanzania 24th to 25th February, 2014.
- Attended EAAPP Miniconference, KARI-Naivasha, 12th to 15th November 2013.
- Attended National Variety Release Committee (NVRC) meeting, Kilimo House June 2013.
- Attended workshop on Seed and Plant Varieties (Seed and Plant Breeders Rights), Maseno ATC July 7th to 13th 2013.
- Attended a workshop for developing a national engagement plan for adoption of Harmonized Eastern Africa Seed Standards, Regulations and Procedures (HESSREP) in Kenya, Naivasha 17th-18th June, 2013.
- Attended workshop for the project titled 'Enhancing Adoption of Harmonized Seed Standards, Regulations and Procedures in Eastern and Central Africa', CHAK Guest House, Nairobi 6th to 10th May, 2013.
- Attended the 12th International Plant Virus Epidemiology (IPVE) Symposium Arusha-Tanzania 28/1/13 -1/02/13.
- Attended workshop to discuss the National Performance Trials (NPT), 26th to 27th November, 2012.
- Attended workshop to discuss the National Performance Trials (NPT), EAST college, Embu 18th to 19th April, 2012.

- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Kitale, 4th to 6th December, 2011.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Kisumu, 23rd November, 2010.
- Attended the Alliance for the Seed Industry for Eastern and Southern Africa (ASIESA) workshop at Jacaranda Hotel, Nairobi 13th to 14th June 2011.
- Attended East African Seed Committee (EASCOM) meeting, Imperial Beach Hotel, Entebbe 23rd to 26th February 2011.
- Attended workshop to discuss Pulse APVC analyses, KARI-Embu, 7th to 9th February, 2011
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Headquarter, Nairobi 11th January, 2011.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-Kisumu, 14th to 18th December, 2010.
- Attended workshop to discuss the National Performance Trials (NPT), KEPHIS-headquarters, 23rd November, 2010.

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

1.3.1 Student Evaluation

- Scored 100% in KST 206: Principles of Agricultural Biotechnology Semester 2 2019/2020.
- Scored 98% in KST 209: Principles of Crop Improvement Semester 2 2014/2015.
- Scored 98% in KCU 301: Research Methodology Semester 1 2014/2015.
- Scored 97% in KST 209: Principles of Crop Improvement Semester 2 2013/2014.
- Scored 97% in KST 130: Field Course Semester 2 2013/2014.
- Scored 98% in KST 209: Principles of Crop Improvement Semester 2 2014/2015.
- Ranked as the 19th overall best University Lecturer in the 2010-11 Performance contract assessment.

1.3.2 Trainings in higher Education

- 8th and 9th January, 2018: Certificate of completion of course titled “Role of Chairpersons in The Implementation of University Policy,” KUCC Main Hall.
- 9th May, 2017: Certificate in Risk Based Thinking, SGS certificate 1810/17, Nairobi, Kenya.
- 14th September, 2016: Awareness Training on ISO 9001:2015, Quality Management Systems (QMS) Standards, Kenyatta University.
- 27th to 28th June, 2016: Training on National Variety Release Process in Kenya, Maanzoni Lodge, Machakos County.
- 28th May and 14th November, 2013: Teaching Methods, Kenyatta University.

- 8-11/08/2010, Curriculum Development in Agricultural Education and Extension, Kenyatta University.
- 11th-15 April, 2011: Certificate of facilitation in the Agricultural Interns Training Workshop organized by Kenyatta University and the Farmer Voice Radio Initiative.
- 28th June - 2nd July 2010: Certificate of facilitation in the Agricultural Interns Training Workshop organized by Kenyatta University and the Farmer Voice Radio Initiative.

1.3.3 Ongoing Supervision

MSc

Ongoing

- Mary Wakaria. MSc Research-Evaluation of Rice Germplasm for Resistance to Rice Blast (*Magnaporthe oryzae*) in Mwea, Kirinyaga County –Kenya. Second year, Kenyatta University.
- Ochieng Alfred Odhiambo. MSc Research-Cytoplasmic Genes and Their Influence in the Productivity of Dry bean (*Phaseolous vulgaris*). Second year, Kenya University.
- Bii Erick Kipyegon. MSc-Efficacy of Local Foliar Feed Formulation Compared with Commercial Foliar Feed in Tea Leaf Productivity in Kericho County , Kenya. Second year, Kenyatta University.
- Onyango Kevin Omondi. MSc Research- Selection and Inheritance for Tolerance to Ascochyta Blight in Chickpea (*Cicer Arietinum* L.) in Residual Moisture in Kirinyaga County, Kenya. First year, Kenyatta University.
- Justus Otieno Ojwang. MSc Research-Characterization of Pumpkin using Morphological and SSR Markers in Kasipul Division, Homabay County, Kenya. First year, Kenyatta University.
- Gatheru Peter Karanja 2019. MSc research- Occurrence, Distribution and Management of Burrowing Nematodes (*Radopholus similis*) on Bananas in Kirinyaga County, Kenya. First Year, Kenyatta University.

PhD

On-going

- Onyango Rosally Anyango. PhD Research-Development of Net Blotch Resistant Doubled Haploid Genotypes of Barley by Chromosome Elimination using Bulbosum Technique. -(NRF Grant) Kenyatta University.

1.3.4 Supervision of Postgraduate students

1.3.4.1 Masters Supervision

Completed

- Felista Wanjiku Ndungu 2017. MSc Research- Line by Tester Analysis of Maize Inbred Lines for Northern Leaf Blight and Other Yield Related Traits. (**Graduated 23rd July, 2021**).
- Nyaga M. Christine 2018. MSc Research-Prediction of Hybrid Performance and Characterization of QTL Alleles Associated with Resistance to Maize Lethal Necrosis (MLN) in CIMMYT Maize (*Zea mays*) Lines. (CIMMYT-sponsored), Kenyatta University. (**Graduated 23rd July, 2021**).
- Janet Mwendu Nzamu 2018. MSc Thesis-Assessment of Pollen Viability and Haploid Induction Capacity of 12 Maize (*Zea mays* L.) Inducer Lines in Makueni County, Kenya. **Graduated in December, 2018**, (CIMMYT-sponsored), Kenyatta University.
- Wanyama Patrick Wanjala 2018. MSc Thesis-Path and Stability Analyses of Yield and Yield Components of Soyabean (*Glycine max* L Merr.) Varieties Intercropped with Maize. **Graduated December, 2018**, Kenya University.
- Tabitha Kariithi 2018. MSc-Effect of Organic and Inorganic Fertilizers on Yield and Quality of Amaranthus Species in Kiambu County. **Graduated 3rd August 2018**, Kenyatta University.
- Kirui Kipngetich Rickson. MSc Thesis-Evaluation of Chickpea (*Cicer arietinum*) Genotypes for Fusarium Wilt Resistance and Its' Management by Fungicides. **Graduated-8th December, 2017**, Egerton University.
- Anyang Robert Tabot 2015. MSc Thesis-Effects of Varietal Differences, Plant Spacing, and Yields of Upland Rice in Uganda. **Graduated 19th July, 2015**, Kenya University.
- James M. Gimase 2015. MSc Thesis-Genetic Diversity of Arabusta Coffee (*Coffea arabica* L. x *Coffea canephora* Pierre) and their Parental Genotypes. **Graduated 4th July 2014**, Kenya University.
- Onyango Rosally Anyango (2014). MSc Thesis- Characterization of Virus-free Sweet Potato (*Ipomea batatas* [L.] Lam) Landraces Using Morphological and SSR Markers in East Kamagak Location-Rachuonyo District. **Graduated 4th July 2014**, Kenyatta University.
- Jobson Aruna Momo 2014. MSc Thesis-Effect of Withholding Irrigation Water at Different Levels After Complete Heading on Rice Yield and Seed Quality. **Graduated 4th July 2014**, Kenyatta University.

Ongoing

- Mary Wakaria. MSc Research-Evaluation of Rice Germplasm for Resistance to Rice Blast (*Magnaporthe oryzae*) in Mwea, Kirinyaga County –Kenya. Second year, Kenyatta University. (**Defended Thesis 11th March, 2021 awaiting graduation**).
- Ochieng Alfred Odhiambo. MSc Research-Cytoplasmic Genes and Their Influence in the Productivity of Dry bean (*Phaseolous vulgaris*). Second year, Kenya University.
- Bii Erick Kipyegon. MSc-Efficacy of Local Foliar Feed Formulation Compared with Commercial Foliar Feed in Tea Leaf Productivity in Kericho County , Kenya. Second year, Kenyatta University.
- Onyango Kevin Omondi. MSc Research- Selection and Inheritance for Tolerance to Ascochyta Blight in Chickpea (*Cicer Arietinum* L.) in Residual Moisture in Kirinyaga County, Kenya. First year, Kenyatta University.

- Justus Otieno Ojwang. MSc Research-Characterization of Pumpkin using Morphological and SSR Markers in Kasipul Division, Homabay County, Kenya. First year, Kenyatta University.
- Gatheru Peter Karanja 2019. MSc research- Occurrence, Distribution and Management of Burrowing Nematodes (*Radopholus similis*) on Bananas in Kirinyaga County, Kenya. First Year, Kenyatta University.

1.3.4.2 PhD Supervision

Completed

- James Mwita Gimase. PhD-Pyramiding of Genes for Conferring Resistance to Coffee Berry Disease (*Colletotricum kahawae*) in *Coffea arabica* L. Using Marker Assisted Selection. (NRF-Grant-sponsored) Kenyatta University. **(Graduated 23rd July, 2021).**
- Wakhanu John Akello (2020). PhD Thesis-Nutrition-sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School Going-Children in Kenya. -(Vice-chancellor's Grant-sponsored)-Kenyatta University. **(Graduated 18th December, 2020).**
- Sylvia A. Henga (2019). PhD Thesis-Finger Printing and Relating Juvenile Characters of Rice to Yield and its Components. (NACOSTI Grant-sponsored)- Kenyatta University. **(Graduated 27th July, 2019).**
- Inoti, Shadrack Kinyua (2016). PhD Thesis- Characterization, Propagation and Management of Jojoba (*Simmondsia chinensis*) in Semi-arid Areas of Voi, Kenya. **Graduated 25th November, 2016, Sokoine University of Agriculture, Tanzania.**

On-going

- Onyango Rosally Anyango. PhD Research-Development of Net Blotch Resistant Doubled Haploid Genotypes of Barley by Chromosome Elimination using Bulbosum Technique. **-(NRF Grant) Kenyatta University.**
- Edith Mugehu. PhD student in Plant Breeding. Intra Africa Mobility Scheme Programme. **University of KwaZulu-Natal, South Africa/Kenyatta University, Kenya.**

1.4. PROFESSIONAL /CONSULTANCY

1.4.1 Networks/Collaboration

2017-2018 Collaborated with Ministry of Agriculture, Kiambu County and Machakos County in the research funded by Kenyatta University VC's grant as a principal Investigator in a project titled

- “Commercialization of Locally Developed Agricultural Inputs-Foliar Fertilizers, Hydroponic Nutrient Solutions and Rooting, Powders.”

2012-2015 Collaborated with KALRO-Mtwapa and KALRO_Katumani in the research funded by EAAPP grant as a co-investigator in the project titled

- “Enhancing Cassava Productivity Through Host Plant Resistance Breeding Against Cassava Mosaic Disease and Cassava Brown Streak Disease.”
- 27th November, 2019, Convened Antiterrorism training in collaboration with Border Police Training Campus, Kitui.

1.4.2 Editorial Boards/Referee for professional periodicals

- 2014: Reviewer, Journal of Applied Biosciences (JABs).
- 2013: Reviewer, Seed and Plant Varieties Act (CAP326) regulations
- 2010: Reviewer, Journal of Animal and Plant sciences
- 2008: Reviewer, 10th KARI Conference

1.4.3 Consulting for Internal/national bodies

February, 2011 to 2017

- Member of East African Seed Committee (EASCOM)

9th June 2010 to 2017

- Appointed Member of the Genetic Resource Committee Kenyan Chapter of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA).

1.4.5 Consulting for organizations/institutions

21st May 2013 to 2017

- Consulted as an appointed Member of the National Variety Release Committee (NVRC)
- Consulted as an appointed Member of the National Performance Trial Committee (NPTC)

9th June 2010

- Appointed Member of the Genetic Resource Committee Kenyan Chapter of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA).

1.4.6 Membership to acad/prof bodies

- 9/4/2019 to date: Chairman and member, Kenya Association of Food Safety and Protection (KAFSAP).
- 2009-to 2017: Chairman and member, Plant Breeders Association of Kenya

1.4.7 Any other (editorship/Peer review, external examiner etc)

Editorship/peer review

- International Food Safety Conference, Kenyatta University, Nairobi 20th -24th May, 2019.
- Edited the proceedings and papers for the 2nd SAED Biennial Conference, BSSC, Kenyatta University, 29th November to 2nd December 2016.

External Examiner

- **2017-to date:** External Examiner, Department of Animal Health and Production Mount, Kenya University.
- 2020- External Examiner, PhD Thesis, Jomo Kenyatta University of Agriculture and Technology. Mr Tewodros Beguse Neguse's PhD Thesis, "Assessment of Production Practices, Diversity and Postharvest Quality Characteristics of Mango (*Mangifera indica* L.) in Ethiopia"
- 2019- External Examiner, PhD Thesis, Jomo Kenyatta University of Agriculture and Technology. Ms Margaret Kavenge Masaku's PhD Thesis, "Evaluation of Green Gram Genotypes for Agronomic Performance under Reduced Light Intensity and Microcatchments in Semi-Arid Areas of Kenya"
- 2019- External Examiner, MSc Thesis, Jomo Kenyatta University of Agriculture and Technology. Mr Mbuvi Bernard Masila- MSc Thesis, "Multi-location Evaluation of Tropical Maize Hybrids for Yield, Agronomic Performance and Incidence of Foliar diseases."
- 2017- External Examiner, MSc Thesis, Jomo Kenyatta University of Agriculture and Technology. Mr Kariuki John Kimondo- MSc Thesis, "Development and Characterization of Herbicide Tolerant Maize Lines derived from Mutation Breeding."
- 2016- External Examiner, PhD Thesis, Jomo Kenyatta University of Agriculture and Technology. Mr Biniam Mesfin Ghebresslassie's PhD Thesis, "Characterization of Potato (*Solanum tuberosum* L.) Cultivars from Eritrea Using Morphological, Molecular and Nutritional Descriptors."
- 2016- External Examiner, MSc Thesis, Egerton University. Mr Kirui Kipngetch Rickson- MSc Thesis, "Screening Chickpea (*Cicer arietinum* L.) Genotypes for Fusarium wilt resistance and Its Management using Fungicides."
- 2015- External Examiner, MSc Thesis, University of Nairobi. Ms Wainaina Eunice Wairimu- MSc Thesis, "Genetic Analyses and Participatory Sweet Potato Variety Selection in Kikuyu District, Kenya."

- 2015- External Examiner, MSc Thesis, Jomo Kenyatta University of Agriculture and Technology. Mr Tesfamichael Semere Mallu- MSc Thesis “Evaluation of Chickpea Genotypes for Yield and Selected Agronomic Traits in Kenya.”

Internal Examiner

- 2020-Internal Examiner, MSc Thesis, Kenyatta University. Ref: M/TH/006/2020, -“Analysis of Combining Ability for Early Maturity and Yield in Rice (*Oryza species*) at Kenyan Coast.”
- 2019-Internal Examiner, PhD Thesis, Kenyatta University. Ref: M/TH/010/2019, -“Effects of Calcium, Potassium and Water stress on Growth, Yield and Quality of Different Tomato Varieties in Mandera County, Kenya.”
- 2017-Internal Examiner, MSc Thesis, Kenyatta University. Ms Rosepiah Munene -MSc Thesis, “Effects of Nitrogen Forms on Growth, Yield and Nutrition Quality of Amaranth (*Amaranthus species*) in Kiambu and Kirinyaga Counties.”
- 2017-Internal Examiner, MSc Thesis, Kenyatta University. Mr Wafula Nelson Wekha -MSc Thesis, “Effects of Phosphate Rates on Nitrogen Uptake, Growth, Yield and Quality of Finger Millet In Busia, Kakamega and Makueni Counties.”
- 2015-Internal Examiner, PhD Thesis, Kenyatta University. Ms Chirchir, Grace Jepleting -PhD’s Thesis, “Seed Quality of Soybean (*Glycine max* (L.) Merrill) Genotypes under Varying Storage and Priming Mother Plant Nutrient Profiles and Agro-ecologies in Kenya.”
- 2015-Internal Examiner, MSc Thesis, Kenyatta University. Mr Odhiambo Peter Okello's-Master Thesis, “Water Stress Effect on Antioxidant Activity and Phenolic Content of African Nightshades and Their Distribution in Kisii and Siaya Counties of Kenya.”
- 2015-Internal Examiner, MSc Thesis, Kenyatta University. Mr William Muthui Munyao -MSc Thesis, titled “Xenia Effect of Resistance to Maize Weevil, *Sitophilus zeamais* (coleopteran:curculianidae) and Larger Grain Borer *Protephanus truncates* (Coleoptera:Brostrichhidae) in Maize.”

December 2012

- Appointed on 14th December, 2012 as an expert in a consultative forum on Genetically Modified Organisms (GMOs) by the National Biosafety Authority (NBA), Kenyatta International Conference Centre.

February, 2011

- Member of East African Seed Committee (EASCOM)

1.5 Administrative Responsibilities

1.5.1 Recognized University administrative positions

- Associate Dean, School of Agriculture and Enterprise Development (SAED), 1st March. 2021 to date
- Director, Kitui Campus, Kenyatta University-25th February, 2019 to 1st March, 2021.
- Chairman, Agricultural Science and Technology-10th August, 2017-30th September, 2018.
- Departmental Post Graduate Co-ordinator-8th November, 2015-2017

- Member School Board of Postgraduate Studies, School of Agriculture and Enterprise Development (SAED)-26th October, 2015-2017
- Member: KU@30 committee, 4th August 2015.
- Departmental Digital and E-learning Co-ordinator-1st October, 2015 to 27th February, 2016
- Departmental Examination Coordinator, Agricultural Science and Technology (AST)-30th June, 2011 to 30th October 2013.
- Member of the Project Steering Committee (PSC)-JICA supported Science and Technology Research Partnership for Sustainable Development (SATREPS)-Rice project-1st July 2013-2018.
- 11th to 25/04/2011: Acting Chairman Agricultural Science and Technology, Kenyatta University

1.5.2 Other Responsibilities in the University

20-24th May, 2019

- Member of the Local Organizing Committee (LOC), International Food Safety Conference, Kenyatta University, Nairobi 20th -24th May, 2019.

2nd December, 2016

- Member of the Local Organizing Committee (LOC), 2nd SAED Biennial Conference, BSSC, Kenyatta University, 29th November to 2nd December 2016.

28th August 2018

- Appointed to a Sub-committee to Advise on Construction of a Dam and Other Agricultural Infrastructure at Kitui Campus

6th August 2018

- Appointed to a Sub-committee to Spearhead the Transfer of the School of Agriculture and Enterprise Development to Kitui Campus

1.6. Community Engagements and other Contributions

1.6.1 Research Funding

- 2020 Won US\$ 6,000 from NRF
- 2017: Won US \$ 11,000 from Kenyatta University Vice Chancellors' Research Grant call 2016
- 2017: Won US\$ 20,000 from NRF
- 2016: Won US\$ 8,000 from NACOSTI
- December 2012: Won US\$ 264,617 from EAAPP
- December 2011: Won US\$ 2,167 from NACOSTI
- 2008: Won US\$ 106,830 from Bill and Mellinda Gates foundation
- 2008 Won US\$ 100,000 from KAPP

1.6.2 Community Outreach

- Elected Member of Kitui County NDEENGU KGGPF **2019 to date**
- Member of Board of Management Nyumbani Village Schools, Kitui **2019 to date**
- Elected member of the Rural Electrification Committee Nakuru Workers Estate. Was involved in the campaign on rural electrification **2010 to date**
- Member of The Model Home Committee, Community Outreach and Extension Programme (COEP)

1.6.3 Professional Affiliation and portfolio

- 9/4/2019 to date: Chairman, Kenya Association of Food Safety and Protection (KAFSAP).
- 2009-to 2017: Chairman, Plant Breeders Association of Kenya

1.6.4 Recognition awards and Honours

- Letter of Appreciation from the Vice-Chancellor Kenyatta University for organizing a successful International Food Safety Conference held from 20th November to 24th May, 2019.
- Letter of Appreciation from the Dean School of Agriculture and Enterprise Development (SAED), Kenyatta University for organizing a successful 2nd SAED Biennial International Conference held from 29th November-2nd December, 2016.
- Ranked as the 19th overall best University Lecturer in the 2010-11 Performance contract assessment.
- Awarded US 120 for Best Idea on water harvesting and climate change by University management on 20th January, 2011
- Awarded financial support to attend EASCOM Workshop, Entebbe, Uganda on 24th to 25 February, 2011
- Awarded Fellowship to attend training on Chickpea Breeding and Seed Production by the International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Patancheru, India from 6/01-5/02/09.
- Awarded Fellowship to attend training on Jojoba Breeding and Production by the Kenya Agricultural Productivity Project (KAPP)/Association of the Rajasthan Jojoba Plantation Research Project (AJORP) in Jaipur, Rajasthan, India from 21/9-30/9/2008
- Awarded US \$ 400 for the best paper in Horticulture and Industrial Crops by the Secretariat 11th KARI Scientific Conference in 2008
- Awarded US \$ 145 for the best paper in Biotechnology by the Secretariat 10th KARI Scientific Conference in 2006

- Awarded Fellowship to attend training on Molecular Marker Techniques for Development of Improved Crop varieties by IAEA/AFRA/ARC-LNR in Roodeplaat, Pretoria, South Africa from 14/8-1/9/2006
- Awarded Fellowship to attend training on Marker Assisted Selection and Mutation Breeding by KARI at KARI-Njoro from 3-14/10/2005
- Awarded Fellowship to attend training on Advances in Molecular Characterization for Crop Improvement by KARI at KARI-Njoro from 16-27/2/2004
- Awarded US \$ 1,000 to attend Conference in Johannesburg, South Africa by the International Sunflower Association (ISA) in 2002
- Awarded Fellowship to attend training on Sunflower Breeding by World Bank/Directorate of Oilseed Research (DOR) in Hyderabad, India from 18/9 to 18/11/1996

1.6.5 Any other category

- Elected Member of Kitui County NDEENGU KGGPF **2019 to date**

1.6 Referees

(1) Prof. C.M. Ndirangu

**Egerton University,
P.O Box 20115-536,
Egerton
Mobile: 0721736533**

(2) Dr T.C. Riungu,

**Mobile: 0722224510
Email: teriungu@gmail.com**

(3) Dr M. Gethi,

**Mobile: 0722328963
Email: mgethi@gmail.com**