

CURRICULUM VITAE

1.0 PERSONAL INFORMATION

NAME: Maina Mwangi
TITLE: DR
DEPARTMENT: Agricultural Science and Technology
DESIGNATION: Senior lecturer
EMAIL: maina.mwangi@ku.ac.ke /
mmainam@gmail.com
ADDRESS: School of Agriculture and Enterprise
Development, Kenyatta University, P.O. BOX 443844-
00100, NAIROBI.
TEL. +254-710-860550 / 0777-860-550
AREA OF SPECIALIZATION: Microbiology, plant
pathology, crop protection,
RESEARCH INTERESTS: bacterial crop pathogens,
horticulture, seed systems, IPM
Google Scholar:
<https://scholar.google.com/citations?user=bcWe8CoAAAAJ&hl=en>
ORCID ID:



1.1.2 ACADEMIC AND PROFESSIONAL QUALIFICATIONS

- **2003:** PhD Plant pathology, University of Bonn, Germany
- **1997:** MSc Plant pathology, University of Nairobi, Kenya
- **1994:** BSc Agriculture, University of Nairobi
- **Ongoing** MBA (Leadership & Sustainability), Robert Kennedy College, Zurich, Switzerland and University of Cumbria (UK). Completed modules in *Organizational Behavior, Financial Management, Marketing Management, Money management, Strategic Management*). Completing dissertation in September 2019.

Research project: Adaptability in design and implementation of strategic plans in Kenyan public universities

- **2017/ 2018 Training for Deans and Directors on Quality Leadership and Management:** A Driver of Change in Higher Education. Week 1 at Karatina University, Week 2 at Masinde Muliro University. Organized by the Dialogue on Innovative Higher Education Strategies, DAAD. *Key lessons:* The tasks, functions and responsibilities of Deans and Directors; Principles of Leadership and Management; Strategic leadership and change management; Solutions to research challenges and strategies for promoting research in faculties/schools; Rationalization of academic programmes and units in university curriculum; Project action planning; Fundamentals of Internationalization
 - October – Dec, 2018 (3 weeks): Training on the East Africa Network of Universities of Applied Sciences. Hochschule Neu Ulm and Technische Hochschule Ingolstadt, Germany. *Key lessons:* strategic engagement with industry; innovation management; research for impact; internationalization; curriculum design for applied sciences; resourcing learning and research, sustaining impact, etc
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1.1.3 EMPLOYMENT HISTORY

- April 2013 to date:** Senior Lecturer, Dept. of Agric. Science & Technology, KU
2009 to 2013: Lecturer, Department of Agric. Science & Technology, KU
2008 - April 2009: Manager, Biosciences Business Units, Farm & Comm. Tech Ltd.
8/2005 - 2007: Plant Pathologist, International Institute of Tropical Agriculture, Kampala, Uganda.
2003 - 7/2005: Post Doc, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria.

1.1.4 ACHIEVEMENTS

1.2 PUBLICATIONS

1.2.1 REFEREED JOURNALS

1. Barasa, M.W., R. Kahuthia-Gathu, M. Mwangi, J. W. Waceke, 2019. Tomato Production Characteristics, Biotic Constraints and their Management Practices by Farmers in Bungoma County, Kenya. Journal of Natural Sciences Research Vol.9, No.12. DOI: 10.7176/JNSR.
<https://iiste.org/Journals/index.php/JNSR/article/view/48534>
2. Olivier Dayou, Maina Mwangi, Andrew Ogolla Egesa, Peter Munyao Muteti and Careen Ihazano Chumba, 2018. Application of molecular and biotechnological techniques in plant disease management: A review. African Journal of Biotechnology Vol. 17(31), pp. 938-948, 1 August, 2018 DOI: 10.5897/AJB2018.16532 Article Number: 16CFC7C58035.
3. Mwirigi Peter, Joseph Gweyi-Onyango, Maina Mwangi, 2018. Flowering and Fruiting of Yellow Passion Fruit (*Passiflora Edulis*, Var F. *Flavicarpa*. Deg) as Influenced by Different Fertilizer Applications in Kiambu and Embu Counties, Kenya. The International Journal of Science and Technoledge Volume 6, Issue 4, April 2018.
<http://www.internationaljournalcorner.com/index.php/theijst/article/view/129688>
4. Fiona Mwaniki, Charity Gichuki, Maina Mwangi, Pamela Mburia, Benson O. Wandago, 2017. Addressing challenges in communicating adaptation practices to smallholder farmers in Kenya through a radio intervention. Journal of Agriculture and Environment for International Development - JAEID 2017, 111 (2): 279 - 322. DOI: 10.12895/jaeid.20172.58.
5. Kahuthia-Gathu R. Maina Mwangi and Fiaboe M.O. (2017). Assessing and Enhancing Impact of *Cotesia vestalis* in the Management of Diamondback Moth *Plutella xylostella* on Kales in Semi-Arid Areas of Kenya. Journal of Environmental and Agricultural Sciences. Vol 11:1-13.
6. M. Mwangi, A. Egesa and F. Matheri, 2017. Strategies to increase strawberry competitiveness among fruit growers, marketers and consumers in Kenya. Acta Hort. 1156: 921 - 927. ISHS 2017. DOI 10.17660/ActaHortic.2017.1156.136.
7. Grace J. Chirchir, Maina Mwangi, Desterio O. Nyamongo and Joseph P. Gweyi-Onyango, 2017. Effects of genotype and agro-ecological conditions on

- storability of soybean [*Glycine max* (L.) Merr.] seed. *Tropical Plant Research* 4(1) 126 – 133. DOI: [10.22271/tpr.2017.v4.i1.019](https://doi.org/10.22271/tpr.2017.v4.i1.019)
8. Grace Chirchir, Maina Mwangi, D.O. Nyamongo, Joseph Gweyi, 2016. Soybean: An Assessment of Varieties Grown, Seed Sources and Farmsaved Seed Management Practices in Meru South Sub-County, Kenya. *Elixir Agriculture* 98: 42471 – 42475.
 9. Grace Chirchir, Maina Mwangi, D.O. Nyamongo, Joseph Gweyi, 2016. Soybean farm-saved seed viability and vigor as Influenced by agroecological conditions of Meru South Sub-county, Kenya. *Journal of Applied Biosciences* 101: 9634 – 9642. <http://dx.doi.org/10.4314/jab.v101i1.7>
 10. Peter Mwirigi, Maina Mwangi, and Joseph Gweyi-Onyango, 2016. Agronomic Management of Yellow Passion Fruit Among Farmers In Mbeere Sub-County, Kenya. *African Journal of Horticultural Sciences* 10: 1 – 13.
 11. Mwita. A. C., Maina M. Nyairo N. M., Ramaswamy B., 2016. Assessment of profit efficiency among sweet yellow passion fruit farmers in Mbeere south Embu county, Kenya. *Journal of Plant and Animal sciences* 27(3): 4305 – 4314.
 12. Egesa Ogolla, N. Njau, P. Mwirigi, C. Muui, Korir Kibet,, M. Mwangi, 2016. Climate change effects on rainfall patterns and its implications on sorghum and millet production in Kenya: A review. *International Journal of Science and Technoledge* 4(8): 44-52.
 13. James K. Mutura, Newton Nyairo, Maina Mwangi and Stephen K. Wambugu, 2016. Analysis of Determinants of Vertical and Horizontal Integration among Smallholder Dairy Farmers in Lower Central Kenya. *International Journal of Agricultural and Food Research [IJAFR]* ISSN 1929-0969 Vol. 5 No. 1, pp. 1-13. (2016)
 14. James K. Mutura, Newton Nyairo, Maina Mwangi and Stephen K. Wambugu, 2016. Analysis of Integration among Smallholder Dairy Farmers in Lower Central Kenya. *International Journal of Business and Management* 4(2): 57 – 64.
 15. E.N. Marigi, J.O. Masanga, T.L.Munga, L.S. Karanja, M.P. Ngugi, W.M. Thagana, D. Kirubi, M. Mwangi, C.M. Githunguri, W.M. Muiru, D.W. Miano and R.O. Oduor, 2016. Optimisation of a somatic embryogenesis and transformation protocol for farmer-preferred cassava cultivars in Kenya. *African Crop Science Journal* 24: 35 – 44. <http://dx.doi.org/10.4314/acsj.v24i1.4S>
 16. Matheri F, Mwangi M, Runo S, Ngugi M, Kirubi DT, Fred Teya, Mawia AM, Kioko FW, and Kamau DN., 2016. Phenotypic Characterization of Selected Kenyan Purple and Yellow Passion Fruit Genotypes Based on Morpho-Agronomic Descriptors. *Advances in Crop Science and technology* 4 (4): 1000226. 5 pp. DOI: [10.4172/2329-8863.1000226](https://doi.org/10.4172/2329-8863.1000226).
 17. Felix Matheri, Fred Teya, Festus Kioko, Amos Musyoki Mawia, Maina Mwangi, Duncan T Kirubi, Mathew Ngugi and Steven Runo, 2016. Genotyping of Kenyan *Passiflora Edulis* Flavicarpa Hybrid Accessions and their Parents using SSR Markers. *Vegetos –An International Journal of Plant Research* 29(4). doi:10.4172/2229-4473.1000181, 4pp.

18. Matheri F, Nyamai D, Ngugi MP, Runo S, Njuguna JK, Mwangi M and Kirubi DT., 2016. Phenotyping of Selected Kenyan *Passiflora edulis* Varieties and Their Hybrids Based on Quantitative Morpho-agronomic Traits. *Journal of Horticulture* 3(3): 1-4. DOI: [10.4172/2376-0354.1000181](https://doi.org/10.4172/2376-0354.1000181)
19. N. Njau, M. Mwangi, R. Kahuthia-Gathu, R. Muasya and J.N. Mbaka, 2015. Macropropagation technique for producing cost-effective healthy banana seedlings in Eastern and Central Kenya. In *Agricultural innovations for sustainable development, - contributions from the third Africa wide Women and young professionals in science competitions*. Volume 4: Issue 3. pp. 130 – 137.
20. James K. Mutura, Newton Nyairo, Maina Mwangi and Stephen K. Wambugu, 2015. Analysis of Determinants of Market Channel Choice among Smallholder Dairy Farmers in Lower Central Kenya. *International Journal of Innovative Research and Development* 4(10): 264 – 270.
21. James K. Mutura, Newton Nyairo, Maina Mwangi and Stephen K. Wambugu, 2015. Vertical and Horizontal Integration as Determinants of Market Channel Choice among Smallholder Dairy Farmers in Lower Central Kenya. *Asian Journal of Economic and Empirical Research* 2(2): 83-90.
22. Mugambi, David Kimenchu, Maina Mwangi, Wambugu, Stephen Kairu, Gitunu Antony, 2015. Assessment of performance of smallholder dairy farms in Kenya: an econometric approach. *Journal of Applied Biosciences* 85: 7891–7899.
23. Mugambi David Kimenchu, Maina Mwangi, Wambugu Stephen Kairu, Gitunu Antony Macharia, 2014. Characterization and Profitability Assessment of Dairy Farms in Central Kenya. *International Journal of Innovative Research and Development* Vol. 3 issue 9: 82 – 90. ISSN 2278 – 0211 (Online). www.ijird.com
24. Mugambi David Kimenchu, Maina Mwangi, Wambugu Stephen Kairu, Gitunu Antony Macharia, 2014. Estimation of Cost Efficiency of Dairy Farms in Kenya’s Eastern Central Highlands. *International Journal of Innovative Research and Development* Vol. 3 issue 8: 34 - 39. ISSN 2278 – 0211 (Online). www.ijird.com
25. Mugambi David Kimenchu, Maina Mwangi, Wambugu Stephen Kairu, Gitunu Antony Macharia, 2014. Evaluation of Technical Efficiency of Dairy Farms in Embu County, Kenya. *International Journal of Innovative Research and Development* Vol. 3 issue 8: 49 – 54. ISSN 2278 – 0211 (Online). www.ijird.com
26. Mugambi David Kimenchu, Maina Mwangi, Wambugu Stephen Kairu, Gitunu Antony Macharia, 2014. Evaluation of Technical Efficiency of Dairy Farms in Eastern Central Highlands, Kenya. *International Journal of Innovative Research and Development* Vol. 3 issue 4: 482 – 487. ISSN 2278 – 0211 (Online). www.ijird.com
27. Carolyne W. Wangungu, Maina Mwangi, Ruth Gathu, and Reuben Muasya. (2014). Good Orchard Maintenance and Agronomic Practices as Working Components in Management of Dieback Disease on Passion Fruit (*Passiflora* sp.) in Kenya. *Annual Research & Review in Biology*. 4(9): 1397-1405, 2014.

28. Riziki Mwadalu and Maina Mwangi, 2013. The potential role of sorghum in enhancing food security in semi-arid eastern Kenya: A review. *Journal of Applied Biosciences (J. Appl. Biosci.)* 71: 5786 – 5799.
29. C. Karani Gichimu, I. Macharia, M. Mwangi, 2013. Assessment of Input-Output Transformation in purple passion fruit production in Central-Eastern and North Rift, Kenya. *Current Research Journal of Economic Theory* 5(2): 32-37, 2013. ISSN 2042-4841; e-ISSN 2042-485X.
30. Charles Karani Gichimu, Maina Mwangi and Ibrahim Macharia, 2013. Assessment of passion fruit orchard management and farmers technical efficiency in Central-eastern and North-Rift Highlands, Kenya. *Journal of Economics and Sustainable Development*, Vol 4, 183 – 190. ISSN 2222-1700 (paper), ISSN 2222-2855 (online).
31. Kwame Okinyi Ogero, Gitonga Nkanata Mburugu, Maina Mwangi, Michael Mugambi Ngugi and Omwoyo Ombori, 2012. Low Cost Tissue Culture Technology in the regeneration of Sweet Potato (*Ipomoea batatas* (L) Lam). *Research Journal of Biology* (2012), Vol. 02, Issue 02, pp. 71-78.
32. Kwame O. Ogero, Gitonga N. Mburugu, Maina Mwangi, Omwoyo Ombori and Michael Ngugi, 2012. *In vitro* Micropropagation of Cassava Through Low Cost Tissue Culture. *Asian Journal of Agricultural Sciences* 4(3): 205-209.
33. Wangungu, C., Maina, M. and Mbaka, J., 2012. Proposed assessment scale for dieback disease severity on passion fruit. *J. Animal and Plant Sciences* [ISSN 2071 - 7024] 12(2): 1560 -1572.
34. Njeri Njau, Maina Mwangi, Ruth Gathu, Jesca Mbaka, Reuben Muasya, 2011. Banana weevil (*Cosmopolites sordidus*) reduces availability of corms for seedling production through macropropagation technology. *Journal of Animal and Plant Sciences* [ISSN 2071 - 7024] Volume 12(1): 1537 -1542.
35. Supervisor to winning paper of the international TEEAL competition by Ogero Kwame Okinyi -- Kenyatta University, PAPER TITLE: "In vitro micropropagation of cassava through low cost tissue culture.
<http://teeal.org/about/news/winners-announced-teeal-graduate-student-research-paper-competition-2011>
36. H. Bouwmeester, S. Abele, V.M. Manyong, C. Legg, M. Mwangi, V. Nakato, D. Coyne and K. Sonder, 2010. The Potential Benefits of GIS Techniques in Disease and Pest Control: an Example Based on a Regional Project in Central Africa. In *ISHS Acta Horticulturae 879: International Conference on Banana and Plantain in Africa: Harnessing International Partnerships to Increase Research Impact* . . Pp 333 – 340. Editors; T. Dubois, S. Hauser, C. Staver, D. Coyne. 25 November 2010. ISBN 978-90-66055-93-3; ISSN 0567-7572
37. Maina Mwangi (editor), 2010. Contribution of Agricultural Sciences towards achieving the Millenium Development Goals. Edited proceedings of the 3rd International e-Conference on Agricultural Biosciences. ISBN: 978 9966 7415 2 6. 162 pp. <http://www.m.elewa.org/IeCAB2010e-book.pdf>
38. Maina Mwangi and Wangungu Carol (editors), 2010. Developing agricultural extension capacity in Kenya: *Experiences of Kenyatta University Interns in the Farmer Voice Radio Project*. Group 1: July – August, 2010. ISBN 978-9966-7415-

- 3-4. FaCT Publishing, Kenya. 82 pp. <http://www.m.elewa.org/uris-ku-group1.pdf>
39. Maina Mwangi and Mukiri Githendu (editors), 2010. University radio Interns training and field practice handbook. Kenyatta University, 2010. 62pp. ISBN 978 9966 7415 1 8.
40. Leena Tripathi, Maina Mwangi, Steffen Abele, Valentine Aritua, Wilberforce Kateera Tushemereirwe and Ranajit Bandyopadhyay, 2009. Xanthomonas Wilt - A threat to banana production in East and Central Africa. Fruit Strategies International. <http://www.fruit-strategy.com/Articles.aspx>
41. M. Mwangi and V. Nakato, 2009. Key Factors Responsible for the Xanthomonas Wilt Epidemic on Banana in East and Central Africa. Proc. IS on Banana Crop Prot., Sust. Prod. & Impr. Livelihoods. Eds.: D. Jones and I. Van den Bergh Acta Hort. 828, ISHS 2009. Pp 395 - 404.
42. E. Karamura, F. Turyagyenda, W. Tinzaara, J. Muhangi, G. Blomme and F. Maina-Mwangi, 2009. Participatory Monitoring and Evaluation of Management Strategies to Control Xanthomonas Wilt of Banana in East and Central Africa. Proc. IS on Banana Crop Prot., Sust. Prod. & Impr. Livelihoods. Eds.: D. Jones and I. Van den Bergh Acta Hort. 828, ISHS 2009. Pp 405 - 410.
43. Maina Mwangi, 2009. Knowledge for crop disease management: the case of banana Xanthomonas wilt. Journal of Animal and Plant Sciences 2(1): 67 - 72.
44. Mwangi, M., and Sarah, M. (2009). Challenges in strawberry seedling production in Kenya. *Journal of Applied Biosciences*, 23: 1403 - 1405.
45. Tripathi L., Mwangi M., Abele S., Aritua V., Tushemereirwe W., Bandyopadhyay R., 2009. Xanthomonas wilt: A threat to banana production in East and Central Africa. *Plant Disease* 93(5): 440 - 451.
46. J.N. Mbaka, M. Mwangi and M.N. Mwangi, 2008. Turning Farming to Business: the Role of Tissue Culture Propagated Bananas in Kenya. *J. Appl. Biosc.* 9(1): 354 - 361.
47. Mbaka J.N., Maina, M., Nakato, V.G. and Auma, J. An outbreak of banana xanthomonas wilt in banana orchards in Western Kenya. *Afr. J. Hort. Sci.* (2008) 1:9-18.
48. Ngoko Z, Daoudou, Imele H, Kamga PT, Mendi S, Mwangi M, Bandyopadhyay R. and Marasas WFO, 2008. Fungi and mycotoxins associated with food commodities in Cameroon. *J. Appl. Biosc.* 6: 164 - 168.
49. Okechukwu, R.U., A.G.O. Dixon, M. Akoroda, M. Mwangi, and R. Bandyopadhyay, 2009. Root rot resistance in new cassava varieties introduced to farmers in Nigeria. *Experimental Agriculture* 45: 15 - 24. doi:10.1017/S0014479708006777
50. Mwangi M. & Muthoni S. 2008. Survival of Xanthomonas vasicola pv musacearum on metallic tools. *J. Appl. Biosc.* 3: 91 - 93.
51. Ndungo V., Komi F. and Mwangi M., 2008. Banana Xanthomonas wilt: spread and management in the Democratic Republic of Congo. *J. Appl. Biosci.* 1(1): 1 - 7.
52. Maina Mwangi, 2007. Responding to Banana Xanthomonas wilt amidst multiple pathogens. A Crop Crisis Control project Brief. 9pp. <http://c3project.iita.org/Doc/A2BriefRespondingtoBXW.pdf>

53. Vigheri Ndungo, Maina Mwangi, Nakato V., 2007. Brief report of C3P-BXW surveillance and partner visit to DR Congo Feb- March 2007. 7pp. <http://c3project.iita.org/Doc/A12-BXWSurveyDRC.pdf>
54. M. Mwangi, M. Mwebaze, R. Bandyopadhyay, V. Aritua, S. Eden-Green, W. Tushemereirwe and J. Smith. 2007. Development of a semi-selective medium for isolating *Xanthomonas campestris* pv *musacearum* from insect vectors, infected plant material and soil. *Plant Pathology* 56: 383-390.
55. Mwangi, M., Bandyopadhyay, R., Ragama, P. and W.K. Tushemereirwe, 2007. Assessment of banana planting practices and cultivar tolerance in relation to management of soilborne *Xanthomonas campestris* pv *musacearum*. *Crop Protection* 26(8): 1203 -1208.
56. Moses Biruma, Michael Pillay, Leena Tripathi, Guy Blomme, Steffen Abele, Maina Mwangi, Ranajit Bandyopadhyay, Perez Muchunguzi, Sadik Kassim, Moses Nyine Laban Turyagyenda and Simon Eden-Green. 2007. Banana *Xanthomonas* wilt: a review of the disease, management strategies and future research directions. *African Journal of Biotechnology* 6(8): 953-962.
57. Mwangi Maina and Valentine Nakato. 2007. Key drivers of the Banana *Xanthomonas* Wilt pandemic in East and Central Africa. Submitted to *Acta Horticulturae*.
58. Bandyopadhyay R., Mwangi M., Aigbe, S.O. and Leslie J. F. 2006. *Fusarium* species from the cassava root rot complex in West Africa. *Phytopathology* 96: 673 -676.
59. Mwebaze MJ, Tusiime G, Tushemereirwe WK, Kubiriba J, Maina M. 2006. Development of diagnostic media for *Xanthomonas campestris* pv *musacearum*. *African Crop Science Journal* 14(2): 129-135.
60. Mwangi, M., Bandyopadhyay, R. and Tenkouano, A. Faturoti, T. 2005. Outbreak of basal end rot on banana and plantain in Nigeria. *African Crop Science Proc.* 7: 293-295.
61. Kotchoni O. S., Gachomo W. E. and Mwangi, M. 2005. Commercial production of genetically modified crops: a prognosis towards acceptance. *International J. of Agriculture and Biology* 7 (4): 681-688.
62. Mwangi, M., Bandyopadhyay and Asiedu, R. 2005. Evaluating use of minitubers in screening yam genotypes for tolerance to fungal rot pathogens. *African Crop Science Proc.* 7: 273-276.
63. Mwangi, M., R. Sikora and R. Hauschild. 2004. The role of bacteria emitted cyanogenic metabolites in biocontrol. *African Crop Science Proc.* 7(1): 305-308.

1.2.2 BOOKS AND BOOK CHAPTERS

1. Maina Mwangi, 2017. Major Plant Disease threats in Kenya. 2017. FACT Bioscience Publications, Nairobi. ISBN 978 9966 7415 6 9.
2. Training the Next Generation of Soil Scientists and Agronomists in Africa – Best Practices and Lessons Learned. Chapter 11 in: Going Beyond Demos to Transform African Agriculture -The Journey of AGRA’s Soil Health Program. Authors: Marie Rarieya , Bashir Jama ,Maina Mwangi , Andrew

- Opoku , James Mutegi , Mary Yaodze , David Kimani and Rufaro Madakadze. ISBN No: 978-0-9980765-0-8. Ecomedia Ltd, Nairobi.
3. Knowledge Management for Improving the Impact of Agricultural Investments in Africa through Country Soil Health Consortia. Chapter 12 in: Going Beyond Demos to Transform African Agriculture -The Journey of AGRA's Soil Health Program. Authors: James Mutegi , Marie Rarieya , Maina Mwangi , Edward Yeboah , Rebbie Harawa , Zacharia Zida , Shamie Zingore and Jeroen Huising. ISBN No: 978-0-9980765-0-8. Ecomedia Ltd, Nairobi.
 4. Training and Education. Pages 83-102. Book Chapter in: Investing in soil: Cases and Lessons from AGRA's Soil Health Programme. Alliance for a Green Revolution and International Institute of Rural Reconstruction, Nairobi. ISBN: 978-9966-754-08-0.
 5. Mwangi M. & Mwaura S., 2014. Strawberry farming- a farmer's handbook. Elewa. Pub. ISBN: 978 9966 7415 8 7

1.2.2.1 EDITING A BOOK AND CONFERENCE PROCEEDINGS

1. Musundire Robert, 2016. Edible Insects of Zimbabwe: A guide for identification, preparation for consumption and nutritional composition. Chinhoyi University of Technology Press, Chinhoyi, Zimbabwe. Pp. 121. ISBN: 978-0-7974-7678-3. Ed. Maina Mwangi.
2. Training manual: Mwangi, M., Muasya R., Muli B., Musundire R, Bua B., Andika D., Ambuko J., Mezzetti B., Steutzel H, 2016. Agriculture teaching in Higher Education Institutions- a reference manual. Publication of the EDULINK Project FED/2013/320-148.
3. Training manual: Njeri-Njau-Muigai, Muasya R. Muli B., Musundire R., Mpfu HN, Bua B., Andika D., Ambuko J., Steutzel H, Mezzetti B., 2016. Editor: Maina Mwangi. Curriculum Development for agriculture teaching in higher education institutions. Publication of the EDULINK Project FED/2013/320-148.
4. Waceke Wanjohi, George Kariuki, Maina Mwangi, Cyrus Gichaga. Editors: 1st Biennial International conference proceedings on bridging the gap between society, science and industry. 30th Nov – 5th Dec 2014. Kenyatta University.
5. Editorial team member of the peer reviewed proceedings of the 1st All Africa Post Harvest Congress and Exhibition. Reducing food losses and waste: sustainable solutions for Africa. 28th – 31st March 2017, safari Park Hotel, Kenya.

1.2.3 CONFERENCE/WORKSHOPS/SEMINAR PAPERS

1.2.3.1 CONFERENCE PAPERS

Papers presented at the 1st International Conference on Agro ecology Transforming Agriculture and Food Systems in Africa, Safari Park, and Nairobi. 18th-21st June 2019.

Theme: Reducing Synthetic Fertilizers and Pesticides through Scaling up Agro ecology, Promoting Ecological Organic Trade.

1. Michael Barasa, Ruth Kahuthia-Gathu, Maina Mwangi and Waceke Wanjohi, 2019. Efficacy of indigenous antagonistic fungi in management of *Frankliniella occidentalis* on tomato in Kenya.
2. W. Muthoni, Ruth Kahuthia-Gathu, Maina Mwangi and Waceke Wanjohi, 2019. Management of Fusarium Wilt using *Pseudomonas fluorescens* and neem extract in Kirinyaga County, Kenya.

Papers presented at the 6th RUFORUM biennial conference, KICC, Nairobi, Kenya. 22nd-26th October, 2018. Theme: Aligning African Universities to Accelerate Attainment of Africa's Agenda 2063.

3. Agong, S.O., Kahuthia-Gathu, R., Mwangi, M. and Waceke J. W, 2018. Suppressive potential of selected plant species against *Phytophthora infestans* (Late blight) In vitro.
4. Kariuki, A.N., Waceke, J.W., Maina, M., 2018. Efficacy of indigenous fungi isolates against root-knot nematodes (*Meloidogyne spp*) in vitro.
5. M.W. Barasa, R. Kahuthia-Gathu, Maina Mwangi and J.W. Waceke, 2018. Efficacy of entomopathogenic fungi in the control of Western flower thrips *Frankliniella occidentalis* in Kenya.
6. Kavutu, A., Mwangi, M., Kahuthia-Gathu, R., and Waceke, J.W., 2018. The status of crown gall disease on roses in Kiambu, Laikipia and Nakuru Counties, Kenya.
7. Njau, N., Kiirika, L.M., Maina, M., and Tuuroop, L., 2008. Prevalence and Management Options for Bacterial Wilt Caused by *Ralstonia solanacearum* in African Nightshades in Kenya.
8. P. A. Nyamwamu, R. Kahuthia, D. W. Miano, R. Gitonga and M. Mwangi. 2018. Transmission pattern of Maize chlorotic mottle virus (*Machlomovirus*) on maize by *Frankliniella williamsi* and *F. occidentalis* (Thripidae) in Kenya.
9. W. Muthoni, R. Kahuthia-Gathu, M. Mwangi, J.W. Waceke, 2018. Effectiveness of *Pseudomonas fluorescens* and neem in management of the *Fusarium oxysporum* f. sp *phaseoli* in vitro.

Papers presented at the 18th HAK conference, Taita Taveta University. 26th-30th November, 2018. Theme: "Strengthening theoretical research methods - Systems modelling.

10. M.W. Barasa, R. Kahuthia-Gathu, M. Mwangi and J. W. Waceke, 2018. Occurrence of arthropod pests and pesticide use by the tomato farmers in Bungoma County, Kenya.
11. Kavutu, A. Mwangi, M., Kahuthia-Gathu, R., and Waceke, J.W., 2018. Occurrence and Condition of Crown Gall Disease in Selected Counties, Kenya.

Papers presented at the African Phytosanitary Conference, KEPHIS. 4TH-8TH June, 2018. Theme: "Phytosanitary Systems for Safe Trade and food Security."

12. Michael Barasa, Ruth Kahuthia-Gathu, Maina Mwangi and Waceke Wanjohi, 2018. Assessment of pests incidence, pesticide use and application practices on tomato production in Bungoma County, Kenya.
13. Magdalene Wanza and Maina Mwangi, 2018. Management of crown gall disease in the production of flower cuttings in Kenya.

Papers presented at the 16th HAK conference, Chuka University. 28th November -2nd December, 2016. Theme: Strengthening the Experimental Research Environment - Laboratory Techniques.

14. Maina, St, Gweyi-Onyango JP, Mwangi M and Mwirigi P, 2016. Dodder cuscuta: an emerging threat to food security and environment. A review paper.
 15. Mwangi M, 2016. Is market access a bane or boon to success of horticulture in Central and Eastern Kenya?
 16. Abasi E.A. and Mwangi M, 2016. Canopy management for sustainable passion fruit production.
17. Mwirigi peter, Maina Mwangi and Joseph Gweyi, 2015. Agronomic management of yellow passion fruit among farmers in Mbeere sub county in Kenya. Proceedings of KAPAP CGS Collaborative Research Stakeholders Conference (10th - 12th June 2015). KALRO HQ, Nairobi. Pp 344 - 349.
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19. Mwangi M, Gweyi JO, and Mbaka J, 2016. Promotion of technologies to enhance passion fruit productivity under recurring drought events in semi arid eastern Kenya.
20. Kimani, M.M., Gweyi, J.O., Mbaka, J.N., Mwangi M, 2016. Towards passion fruit (*Passiflora* species) production in ASALs of Eastern Kenya: understanding plant responses to moisture stress.
21. Michoma J.M., Korir, N, Gweyi, J.O., Mbaka, J.N., Mwangi M, 2016: Water stress management for profitable production of sweet yellow passion fruit.
22. Abasi, E. A., Muui, C., Mbaka, J.N, Mwangi M, 2016. Vine density management for sustainable passion fruit production.

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23. Maina Mwangi, 2016. Opportunities for Kenya's horticulture industry under changing climate. Presented at the Humboldt "Kolleg" 2016, Naivasha, 6th -

- 8th, 2016: Theme: Research and Networking: Laying the Foundation for the Sustainable Development Goals. Book of Abstracts page 75.
24. Ogero K. O., Mwangi M., Gitonga N. M., Ombori O. and Ngugi M. Enhancing access to disease-free sweet potato planting materials through low cost tissue culture for food security and poverty alleviation in Eastern Africa. Submitted to the Agricultural Biosciences International Conference (ABIC) 2014, 5-8 October in Saskatoon Canada. <http://www.abic.ca/abic2014/>
 25. Impacting lives of young scientists – a story of a Kenyan Young Scientist, Carolyne W. Wangungu. RUFORUM Monthly, volume 7, issue 03. Regional Universities Forum for Capacity Building in Agriculture. March 2013, ISSN 2073-9699.
 26. Maina Mwangi, 2017. Some determinants of postharvest loss in strawberry fruit in Kenya. Book of Abstracts of the 1st All Africa Post harvest congress and exhibition, 28th – 31st March, 2017. Nairobi, Kenya. Pp 44.
 27. D.K. Mugambi , M. Maina Mwangi, 2017. An Assessment of Milk Production Efficiency of Smallholder Dairy Households and Post-Harvest Losses in Meru County, Kenya. Book of Abstracts of the 1st All Africa Post harvest congress and exhibition, 28th – 31st March, 2017. Nairobi, Kenya. Pp 170.
 28. J.K. Mutura , M. Maina M, D. K. Mugambi, 2017. An Evaluation of the impact of Vertical Integration on Post-Harvest Milk Losses mitigation among Smallholder Dairy Farmers in Lower Central Kenya. Book of Abstracts of the 1st All Africa Post harvest congress and exhibition, 28th – 31st March, 2017. Nairobi, Kenya. Pp 180.
 29. Maina Mwangi, Kenyatta University: Strategies for strengthening research competitiveness in African Higher Education Institutions. 1 St Biennial Conference on The State Of Higher Education In Kenya. Programme & Book of Abstracts. Theme: Quality University Research & Innovation. Commission For University Education 2016
 30. Maina M, Njeri N., Musundire R., Muasya R, Mezzetti B., Stuetzel H., Bua B., Kenyatta University: Developing teaching and curriculum skills of university academic staff: lessons from the EDULINK-ESA project. 1 St Biennial Conference On The State Of Higher Education In Kenya. Theme: Quality University Research & Innovation. Commission For University Education 2016. Programme & Book Of Abstracts.
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32. Maina Mwangi. Is market access a bane or boon to success of horticulture in Central and Eastern Kenya? Book of Abstracts page 31.

33. Maina MK, Gweyi-Onyango JP, Mwangi M and Mwirigi P. Dodder Cuscuta: an emerging threat to food security and environment. A review paper. Book of Abstracts page 5.
34. Abasi EA and Mwangi M. Canopy management for sustainable passion fruit production. [Book of Abstracts page 53](#)

Papers presented at the Horticultural Association of Kenya annual symposium 2015. 15th workshop on sustainable horticultural production in the tropics. Held at KALRO, Thika, Dec 2015. In Book of Abstracts

35. Njue, A. M., and Maina M., Mucheru M. Pesticide Use Practices and Attitude Influence Residue Occurrence in French Bean (*Phaseolus vulgaris*). Page 18.
36. Kavoi K. Timothy and Maina Mwangi. Oriental fruitfly: (*Dacus dorsalis* H): a key pest of guavas in Eastern Kenya. Page 39
37. F.Matheri, M. Mwangi, D.T. Kirubi, S.M.Runo and M.P. Ngugi. Deformities and genetic variability of sweet yellow passion fruit (*Passiflora edulis* (Sims) var * *flavicarpa*) in Mbeere South sub-county. Page 39
38. PA Nyamwamu, M. Mwangi, R. Gathu, and D. Miano. Transmission mechanisms of maize lethal necrosis disease (MNLD) in Kenya. Page 40
39. Ndalo, V.O., Kahuthia-Gathu, R., Maina, M Chemical Management of *Tuta absoluta* (Meyreck) in Loitokitok, Kajiado County, Kenya. Page 41
40. Mwirigi P, Maina M. and Gweyi J. Canopy growth of sweet yellow passion fruit in response to different levels of planting fertilizer under greenhouse management. Page 21
41. Momanyi Ariemo and Maina Mwangi. Efficacy of selected fungicides in control of rust (*Uromyces appendiculatus*) on french beans. Page 48

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44. Maina Mwangi, Reuben Muasya, Darius Andika, John Wesonga, Jane Ambuko, Njeri Njau, 2014. Students Perception of Agriculture Training in Public Higher Education Institutions in Kenya. AGRSC Book of Abstracts Page 104.
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46. Tonny Videnyi Yalwala, Allan Jalemba Mgutu, Maina Mwangi, 2014. Embryo Rescue after Hybridization with Sorghum. AGRSC Book of Abstracts Page 122.

47. Matheri FM, Kirubi D and Mwangi M., 2014. Assessment of Genetic Variability within Germplasm of Sweet Yellow Passion fruit (*Passiflora edulis* Sims f. *flavicarpa* Deg). AGRSC Book of Abstracts Page 129.
48. Peter Mwirigi, Maina Mwangi and Joseph Gweyi-Onyango, 2014. Morphological Characterization, Water Stress and Nutrient Management of Yellow Passion Fruits (*Passiflora Edulis*, F. *Flavicarpa*. Deg) in Mbeere District, Embu County. AGRSC Book of Abstracts Page 130.
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53. Kimani J. W., Ombori O., Njoka F.M. and Maina M, 2014. Increasing regeneration rate of two sweet potato (*Ipomoea batatas* L.) cultivars on low cost tissue culture media. AGRSC Book of Abstracts Page 149
54. Grace Jepleting Chirchir, Joseph Gweyi Onyango, Maina Mwangi, Desterio Ondieki Nyamongo, 2014. Assessment of Soybean Agronomic Systems, Seed Handling and Quality in Eastern Kenya. AGRSC Book of Abstracts Page 166.
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58. Wangungu Carol and Maina Mwangi, 2011. Dieback Disease of Passion Fruit: Its Etiology and Epidemiology. Horticultural Association of Kenya annual conference 2011 (<http://hakenya.net/2011/12/12/11th-hak-workshop->)
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62. Carolyne .W. Wangungu; Maina Mwangi; Ruth Gathu; Reuben Muasya; Jesca Mbaka; Njuguna Kori, 2011. Practices for reducing dieback disease incidence on passion fruit in Kenya. Proceedings of the 10th African Crop Science Conference 10th – 13th October 2011, Maputo, Mozambique, Pg. 264.
63. MARTHA R. KASYOKA, MWANGI M., KORI N., MBAKA J., GITONGA N, 2011. Banana seedling systems in central and eastern Kenya. 10th African Crop Science Conference 10th – 13th October 2011, Maputo, Moz. Pg. 248
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65. Njeri Njau, Maina Mwangi, Ruth Gathu, Reuben Muasya, Jesca Mbaka, 2011. Assessing macropropagation technique for production of healthy banana seedlings. Proceedings of the 10th African Crop Science Conference 10th – 13th October 2011, Maputo, Moz. Pg. 248 – 249.
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66. Maina Mwangi, 2011. Increasing incidence of cigar end rot disease is compromising recent gains in banana production in Kenya. Proceedings of the 10th African Crop Science Conference 10th – 13th October 2011, Maputo, Moz. Pg. 110
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72. Njeri Njau, Mwangi, M., Gathu, R., Mbaka, J., Kori, N. & Muasya, R. 2010. Assessing effectiveness of macropropagation technology to produce healthy seedlings of banana varieties with high market demand in Eastern and Central provinces, Kenya. Proceedings of the Second RUFORUM Biennial Meeting 20 - 24 September 2010, Entebbe, Uganda. Pp 531 – 533.
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75. M. Mwangi and S. Muthoni, 2008. Potential negative impacts of vegetable production in polluted environments. Proceedings of the international e-Conference on Biomedical, Environmental and nutritional Health Sciences 2008. Online, Oct 6-20, '08. <http://www.e-conference.elewa.org/biomedical>
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Other conferences

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85. Mwangi Maina, Caroline Nankinga and Eldad Karamura. Challenges to Training Stakeholders for Management of Banana Xanthomonas Wilt. "Utilisation of diversity in land use systems: Sustainable and organic approaches to meet human needs" Tropentag, October 9-11, 2007, Witzenhausen, Germany.
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 103. Mwangi, M., and Hauschild, R., 2001. Biocontrol of rhizobacteria against *Fusarium* wilt on tomato is related to induced resistance. Book of abstracts and proceedings, Conference on International Agricultural Research for Development, Oct. 9 -11, 2001, Bonn, Germany, pp140.

1.2.3.2 WORKSHOP PAPERS

Papers were presented at the conferences/workshops and seminars listed below:

1. 14th - 18th March 2017: EDULINK end of project meeting, Victoria Falls, Zimbabwe.
2. July 7- 8, 2015: EDULINK EU/ ACP projects stakeholders workshop in Brussels Belgium.
3. July 2016: EDULINK EU/ ACP projects stakeholders workshop in Brussels Belgium
4. 1st - 5th February 2016, AGRA writeshop meeting, Naivasha. Writing a book on Soil Health Programme. AGRA
5. 16th to 17th September 2015: EDULINK project partners workshop at South Eastern Kenya University (SEKU).
6. 8th - 10th June 2015. RUFORUM Deans and Principals meeting, Khartoum, Sudan.
7. 26th - 30th August 2015. RUFORUM Deans and Principals annual meeting, Windhoek, Namibia.
8. 2nd - 5th Nov 2015; Coordinated EDULINK project visit to Italy on learning mission with delegation of 10 from Kenya, Uganda and Zimbabwe universities.
9. 7th to 8th August 2014: Participated in EDULINK project workshop on teaching and curriculum development & review in agriculture held at Chinhoyi University of Technology, Zimbabwe.
10. March 2014: EDULINK EU/ ACP projects stakeholders workshop in Brussels Belgium.

11. 27th October – 2nd November 2013: Attended workshop in Barcelona Spain. Theme- “Operationalization of e-supervision of postgraduate students and facilitation of independent personal learning environments in universities”. Open University of Catalonia, Spain.
12. 13th Jan, 2013: Presented paper on “Character and opportunities for youth friendly agricultural enterprises” at the Youth in Agribusiness workshop, Nyeri, Kenya. Organised by Mkulima Young –Rockefeller Project Forum.
13. 2012: Invited participant to Biotech Workshop for leaders of Key institutions and eminent scientists involved in Biotechnology and Biosafety Activities, held at Sarova Panafric Hotel, Nairobi, May 2012. UON-USAID Agro-biotech outreach & awareness workshop.
14. 2010: Invited participant to panel workshop by Ministry of Agriculture developing policy on orphan and neglected crops, 2010.

1.2.3.3 SEMINARS PAPERS/ INVITATION AS A GUEST SPEAKER

1. 2017 June: facilitated training on Grant proposal writing to postgraduate students in City and Mombasa Campus, Kenyatta University for Graduate School.
2. 2016. Paper on “Tips on effective project management and graduate student supervision” presented at the Fifth African Higher Education Week and RUFORUM Biennial Conference 2016. Engaging PIs of RUFORUM Supported Research Grants for efficient Implementation: 17thOctober, 2016. Cape Town, South Africa. http://www.ruforumbiennial.org/sites/all/themes/corporate-site/corporate/images/CNPI_Meeting.pdf
3. 18th May 2016: Facilitated training on Networking and negotiation skills, Chandaria BIIC.
4. October 2014: Facilitated Grant writing training at Directorate of Teaching Excellence and Research Training, Kenyatta University.
5. 2014: invited paper during conference on ‘Risk considerations in agricultural enterprise performance’. Invited paper at the 5 acres or less workshop Kampala Uganda, 10-11th February 2014.
6. Invited participant to Expert Group Meeting in Trieste, Italy organized by the International Center for Science and High Technology (ICS) and UNIDO to discuss “*Detection and health validation methods of bioactive compounds in plants and foods products*”. 14 – 15th March, 2012.

1.3 RESEARCH

1.4 FUNDED PROJECTS

1. 2017: Awarded Ksh 15.8 M by National Research Fund for research on Enhancing Agribusiness, Livelihoods and Environment through better management of pests and diseases of horticultural crops (ENABLE-HORT).
2. 2015: Awarded USD 59,909 by RUFORUM for project on Promotion of technologies to enhance passion fruit productivity under recurring drought events in semi arid eastern Kenya.

3. 2015- 2019: Coordinating DAAD InCountry/Inregion scholarships programme at KU. Over 90 MSc and PhD scholarships awarded since 2015.
4. 2013- 2017: Awarded 584,899 Euro grant by EU/ EDULINK program for project on Enhancing teaching of agriculture sciences in higher education institutions in East and Southern Africa. European Union, Euro.
5. 2014: KU component of the African Universities Research Approaches project. 2014 – 2016. Partnered with IDS (UK), Loughborough University (UK), Strathmore University, Muhimbili University.
6. 2014: Phase II of KAPAP/ World Bank program for Passion fruit research. Additional Ksh 2 M to phase 1 grant of KSh. 7 M under the Fruits value Chain project funded by Kenya Agricultural Productivity and Agribusiness project (KAPAP).
7. 2014: Lead supervisor, NACOSTI funded PhD project on “Influence of Priming on Seed Quality of Soybean Genotypes Under Different Storage Agro-ecologies and Mother Plant Nutrient Profiles in Kenya" (Grace Chirchir), Ksh. 684,000.
8. 2014: Supervisor in award of NACOSTI funded PhD research project on, “The influence of a radio intervention on farmers’ understanding and practices in climate change mitigation and adaptation in Kenya” (to Fiona. N. Mwaniki), Ksh. 600,000.
9. 2012: Lead supervisor: Cassava and sweet potato propagation project by MSc student (Kwame Ogero) on low cost tissue culture funded by National Council of Science and Technology: Ksh. 200,000.00
10. 2012: lead supervisor for NACOSTI grant for passion fruit pathology project for MSc student (Carol Wangungu) funded by National Council of Science and Technology. KES 200,000.
11. 2012: Joint award of Ksh. 2 million by NACOSTI Project on “Delivering technologies to salvage and sustain the high tunnel (“greenhouse”) innovation for profitable small holder tomato production in rural Kenya’ 2012 - 2014. KES 2000,000 with. Dr. Jesca Mbaka, Partners KALRO, KENAFF, Ministry of Agriculture, tunnel fabricators, tomato marketers and nursery operators.
12. Collaborating researcher: Project on : Enhancing cassava productivity through application of Marker Assisted Selection for Mosaic and Brown Streak disease resistance – Funded by East Africa Agricultural productivity project - EAAPP/OCGS/01/2011/19.
13. Coordinator: Integrated Soil Fertility Management Training programme grant to Kenyatta University by the Alliance for A Green revolution in Africa (AGRA) to train 15 MSc level professionals from Mozambique, Rwanda and

- Kenya and equip state of the art laboratory for soil and plant tissue analysis; 2010 – 2013, USD 715,000.
14. 2010: Awarded 60, 000 USD by RUFORUM for project on Banana macropropagation , 2010 – 2012. Partners KALRO, Farm and Community Technologies Ltd.
 15. 2009: - Coordinated Kenyatta University component of the USD 250,000 Farmer Voice Radio project, funded by American Institutes for Research (AIR), partners KENAFF, JKUAT, KBC, FIT Resources, PUEA, and Ministry of Agriculture.
 16. 2005 – 2007: Coordinator, Banana Xanthomonas Wilt component of the regional Crop Crisis Control project-C3P project (<http://c3project.iita.org/>) for six countries, funded by USAID, led by Catholic Relief Services (USD 4.5 M).
 17. 2007 - ASARECA BXW management project Euro 420,000, developed and implemented with NARS in Kenya, Uganda and Democratic Republic of Congo.
 18. 2006: Funding to hire Associate Professional Officer for BXW vector management, \$ 282, 000 (2006 – 2009) (The Netherlands government).
 19. 2006: IFAR grant in 2006 for NARS capacity building in DR Congo, total budget \$11,000.
 20. 2006: DFID Research Into Use Program, 2006. Technology evaluation grant, 7500 Pounds.

1.5 CONFERENCES/WORKSHOPS/SEMINARS ATTENDED

1.5.1 CONFERENCES ATTENDED

1.5.2 WORKSHOPS ATTENDED

1.5.3 SEMINARS ATTENDED

(see additional information on papers presented at conferences / workshops and seminars at section 1.2.3 of this document)

1.5.4 CONVENING AND COORDINATING CONFERENCES/WORKSHOPS

- 6th – 8th August 2015: Convened Midterm review workshop for EDULINK project held at Kyambogo University, Uganda.
- 17th - 18th July 2015. Convened EDULINK Project partners' workshop held at Kenyatta University.
- 12th to 14th October 2015: Convened the Regional workshop for managers of agriculture teaching and research at Kenyatta University.
- 2nd – 6th November 2015, led a delegation of Deans and agriculture teaching managers from Kenya, Uganda, Zimbabwe to visit Italy under EDULINK project.
- 2013: Organizer committee of the 1st International Symposium on ornamentals in Africa. 9-13th September, Morendat Training and conference center, Naivasha. Theme – Ornamentals for people, planet and profit.

- 1st – 5th December 2014: Coordinated the five day International conference on “Building a new generation of agricultural scientists”, held at Kenyatta University, Kenya.
- 15th – 17th January 2014. Convened workshop between Kenyatta University faculty and Visiting Professors from Universita Politecnica Delle Marche, Italy and Texas Tech University, USA held at Kenyatta University with 30 participants. Theme: Developing and Maintaining Impactful Multi-institutional Teams”.
- 13th – 15th January 2014: coordinated the agriculture teaching and research capacity development workshop held at Kenyatta university by EDULINK project in collaboration with AGRA and Wageningen university.
- 30th May 2014: convened workshop on project sensitization and reviewing proposed reference manuals on training methods and curriculum development skills held at Kenyatta University.
- 28th to 30th November 2013 Convened and coordinated the launch conference for the regional EDULINK project on Enhancing Nutrition And Food Security Through Improved Capacity Of Agricultural Higher Education Institutions In East And Southern Africa at Kenyatta University, Kenya.

1.5.5 TRAINING SEMINARS ATTENDED

1. 2017: Risk awareness and control in Quality management systems, KU.
2. 1st – 3rd December, 2016. Institutional Strengthening workshop, CIRCLE ISP. Institutional gap analysis, and action planning. African Academy of Sciences, Nairobi, Kenya.
3. September 2016: DRUSSA course for trainers on Research uptake, Nairobi. Development Research Uptake in Sub Sahara Africa.
4. July 2014: Procurement procedures for Directors tender committee and tender processing committee at Kenyatta University. Center for procurement and supply chain management.
5. June 2009: Environmental management systems - Implementation of ISO 14001:2004. Kenya Bureau of Standards.

1.6 SUPERVISION OF POSTGRADUATE STUDENTS

1.6.1 MASTERS

1.6.1.1 COMPLETED STDUENTS

1. 2019: Edna Abasi, A144/28218/2015. Effect Of Vine Density On Growth, Yield And Nutrient Partitioning Of Sweet Yellow Passion Fruits (*Passiflora edulis* var. *flavicarpa*) In Embu County, Kenya
2. 2018: Stella Ignatius, A144/OL/22324/2011: Evaluation of grafting technology for management of bacterial wilt of tomatoes.
3. 2016: Amos Chacha, A152/25630/2013. Assessment of profit efficiency among sweet yellow passion fruit farmers in Mbeere South District, Embu County.

4. 2014: Riziki Mwandalu, A148/25776/2011. Improving sorghum grain yield through use of fertilizer and manure in Makueni and Machakos County, Eastern Kenya.
5. 2013: Charles Karani, A103/21596/2010. Evaluation of production efficiency of small scale purple passion fruit farmers towards improved livelihoods in eastern and north-rift regions, Kenya
6. 2013: Martha Kasyoka, A103/13327/09. Efficiency of macropropagation in relation to other banana seedling production methods.
7. 2012: Carolyne Wangungu, A103/12216/09, Etiology, epidemiology and management of dieback disease of passion fruit (*Passiflora edulis*) in Central and Eastern regions.
8. 2012: Njeri Njau, A103/13606/2009. Determination of the effectiveness of macropropagation technique in production of healthy banana seedlings.
9. 2012: Kwame Ogero, A144/13872/2009: Micropropagation of cassava (*Manihot esculenta* Crantz) and sweet potato (*Ipomoea batatas* (L) Lam) through low cost and conventional tissue culture.

1.6.1.2 MASTERS ONGOING (AS AT JULY 2019)

1. Aprodisia Kavutu, A145/38267/2016. Effectiveness of antagonistic bacterial isolates against crown gall disease of roses From Kiambu, Nakuru and Laikipia Counties, Kenya
2. MUTHONI TERESIA WANJIRU, A145/OL/CTY/32298/2016. effectiveness of *pseudomonas fluorescens* and neem in management of *Fusarium oxysporum* on French beans in Kirinyaga county, Kenya.
3. Anne Kariuki, A145/OL/CTY/32299/2016: Effectiveness of indigenous fungal antagonists against root knot nematodes on tomato in Kirinyaga County, Kenya
4. Barasa W. Michael, A145/38309/2016. Efficacy of entomopathogenic fungi against tomato pests in Bungoma county, Kenya
5. Agong Steve Ochieng, A145/37650/2016. Biocontrol of late blight *Phytophthora infestans* on potato using selected fungal antagonists and plant extracts in Kiambu county, Kenya
6. NYANG'AU NYAGWONDA DOUGLAS, A145/CE/28000/2015. Occurrence, abundance and distribution of plant parasitic nematodes associated with bananas in Kisii and Migori counties, Kenya.
7. ABONYO ANDREW ADUM, A145/38268/2016. Species diversity of Xylophagous beetles on *Acacia xanthophloea* and their associated natural enemies in Nairobi, Isiolo and Nakuru counties, Kenya.
8. MWASAME, EVANS NATEMBEYA, A145/OL/CTY/27632/2014. Correlation between maize lethal necrosis disease (MLND) and mycotoxin in maize lethal necrosis hotspots in Kenya.
9. PETER SHANGO, A145/OL/NKU/26326/2015. Assessment and detection of maize chlorotic mottle virus stability in maize seeds in Kenya.

10. PAUL MAGDALENE WANZA, REG. NO: A145/0L/CTY/26985/2015. Management of crown gall disease in Asteraceae flower cuttings production in Nairobi county, Kenya.
11. 2015: Moses Kimani, A144/30875/2015. Physiological, Morphological, Biochemical And Molecular Analysis Of Passion Fruit Tolerance To Drought Stress In Kenya
12. 2015: Justine Michoma, A144/30875/2015. . Evaluation Of Water Conserving Technologies For Sustainable Production Of Yellow Passion Fruit In Embu County
13. 2015: Ombachi ombaye, A145/OL/NKU/26689/2015. Evaluation of *Trichoderma asperellum* and *Gliocladium catenulatum* in Biocontrol of Root Rot of Beans in Soilless Culture.
14. 2014: Victor Ndalo A146/25554/2013 - Population dynamics and indigenous parasitoid guild of tomato leaf miner (*Tuta absoluta*) in Loitokitok, Kajiado County Kenya.
15. 2011: Jane Kimani, I56/CE/14162/: Increasing the production of nodal cuttings in four sweet potato (*Ipomoea batatas*. l.) cultivars under low cost tissue culture conditions.
16. 2011: Mary Wakini Wanyonyi, : Gender Responsiveness in Maize Production Technologies In Trans Nzoia County.
17. 2014: AWA CHELANGAT, A144/OL/14731/. Influence of arbuscular mycorrhizae on plant phosphorous nutrition, rooting, and growth of selected tea (*Camellia sinensis*) clones.

1.6.2 PHD STUDENTS

2. 2019: Peter Mwirigi, A99/27276/2014: Morphological characterization, water stress tolerance and nutrient management of yellow passion fruits (*Passiflora edulis* f. *flavicarpa*) in Mbeere District, Embu County. COMPLETED.
3. 2016: Grace Chirchir, A99/24919/2011, Influence of priming on seed quality of soybean genotypes under different mother nutrient profiles and agroecologies in Kenya. COMPLETED
4. 2015: Mutura James Kuria, A99/13210/2009, Analysis of vertical and horizontal integration of smallholder dairy farming enterprises in lower Central Province, Kenya. PhD completed. COMPLETED
5. 2013: Mugambi David K, A99/13212/2009, Evaluation of milk production efficiency in eastern central highlands of Kenya as an indicator of product demand. COMPLETED
6. 2015: Paul Nyamwamu, A99/28498/014: Transmission mechanisms and management of the maize lethal necrosis disease. ONGOING
7. 2015: Njue Annette Mukami, NM85/21929/2012: The effects of pesticides on soil microbial activity and nutrient availability in French beans (*Phaseolus vulgaris*) in Muranga County, Kenya. ONGOING
8. 2016: Njeri Njau, AG431-0085/2016 (JKUAT): Distribution, Epidemiology and Management of *Ralstonia Solanacearum* on Nightshade (*Solanum* Spp.) Under Varying Climate Conditions. ONGOING

9. 2017. FELIX MATHERI, I84/38307/2017. Diversity and abundance of nematode fauna under amendments and physical-chemical dynamics of farm yard compost based on morphological and molecular tools. ONGOING

1.7 PROFESSIONAL/CONSULTANCY/ EXTERNAL EXAMINATION

1.7.1 EXTERNAL EXAMINER FOR OTHER UNIVERSITIES

- University of Nairobi
 - Appointed external examiner for Department of plant sciences and crop protection Jan 2018.
- Chinhoyi University of Technology, Zimbabwe
 - Jan 2015 – Dec 2016: – appointed external examiner for Department of Crop Science and Post-Harvest technology. Renewed on June 23rd 2017 to 31st Dec 2019.
- South Eastern Kenya University,
 - 3rd May 2017 appointed external examiner for the School of Agriculture and Veterinary Sciences for 2016/2017 academic year.
- Appointed INTERNAL and EXTERNAL examiner for PhD and MSc theses in various universities as follows:

1.7.2 PhD thesis examination (internal and external)

1. April 23, 2019, PhD thesis, Mr. Stephen Tarmogin Omburo, “Assessment of amaranth accessions for pest resistance, water stress tolerance and their effect on performance of indigenous parasitoids in Arusha, Tanzania.” **Kenyatta University**.
2. Oct 25, 2016; PhD thesis for Dennis Maina Gatahi, “Biological control of bacterial wilt in tomato using bio-antagonists adsorbed on chitosan-silica nanocomposites”. **JKUAT**
3. Feb 11, 2016 – PhD thesis Mr. Wakuma Bayissa “Fungal entomopathogens (*M. anisopliae* and *B. bassiana*) for aphid management: variability in pathogenicity, species attributes and interaction with other natural enemies”. **University of Nairobi**
4. 5th Nov 2014- PhD thesis for Kwach Kisera Johnson, “Integrated management of Banana *Xanthomonas* wilt in Kenya using cultural practices and host resistance”. **University of Nairobi**.

1.7.3 MSc Thesis internal and external examination

1. 2019 June: Msc thesis, Etabo Edung Mathew, Title: Effects of irrigation scheduling and phosphatic fertilizer on yield of Nerica rice in Mwea”. **Kenyatta University**.
2. April 23, 2019- Msc thesis, Otsyula Masheti Yona, title; “Performance of bean genotypes under disease pressure in different environments and planting times in Western Kenya”. **University of Nairobi**.
3. 2019 April, Mulwa Joseph Mutunga title: “Determining pollinators and pollination deficit of avocado *Persea americana* Mill in Murang’a County, Kenya”. **Kenyatta University**

4. March 5, 2019-Msc thesis, Kamatenesi Jovia - title; "Detection and management of virus associated with passion fruit woodiness in Rwanda". **University of Nairobi.**
5. June 23, 2019- Msc thesis, Haswell Blair D. "Management of aflatoxin contamination in groundnuts through host plant resistance and post-harvest handling practices". **University of Nairobi.**
6. 2018 Feb, Msc thesis, Mr. Edgar Ocharo. Title; "Evaluation of row spacing and mulching on weed control, growth and yield of green pepper in Busia County, Kenya". **Kenyatta University**
7. May 6, 2018- Msc thesis, Mr. Gatunzi Kitira Felix "Determining the role of seed and soil in the transmission of viruses causing maize lethal necrosis disease in maize". **University of Nairobi.**
8. Oct 2, 2017- MSc thesis, Omuketi William Emitaro, "Characterization of *Xanthomonas campestris* pv. *vesicatoria* in African nightshade (*Solanum scabrum* Mill.) and its control using plant extracts of *Bidens pilosa* and *Euphorbia hirta* L. **Maseno University.**
9. 2017, Sept: Msc Agnes Waringa Kiriga, Title; "Occurrence of Plant parasitic nematodes in commercial pineapple fields and the effect of biological control agents on Meloidogyne species in Kenya". **Kenyatta University**
10. July 2017: **Fifteen (15) MSc** theses examined in MSc postharvest technology at **Chinhoyi University of Technology**, Zimbabwe.
11. 2017 March Msc thesis, Ms. Martha Okello, title: "Effects of organic and inorganic fertilizers on seed quality of upland NERICA rice varieties in Siaya County". **Kenyatta University**
12. Oct 25, 2016-Msc thesis, Ms. B. Jerotich Kosgei; "Effects of seed quality and soilborne pathogen inoculum on disease pressure in common bean". **University of Nairobi.**
13. Oct 25, 2016- Msc thesis, Ms. Lengai Mary Geraldin "Efficacy of local plant extracts and antagonistic fungi as alternatives to synthetic pesticides in management of tomato pests and diseases". **University of Nairobi.**
14. Oct 19, 2016 – MSc Njenga Keisha Wambui, : "Induction of resistance by silicon application against bacterial blight disease in cassava". **University of Nairobi.**
15. June 2016: **Nine (9) MSc** theses examined in MSc postharvest technology at **Chinhoyi University of Technology**, Zimbabwe.
16. June 17, 2016- Msc thesis, Ms. Beatrice Wambui Mbugua, "Effect of intercropping and legume diversification on intensity of fungal and bacterial diseases of common bean". **University of Nairobi.**
17. May 17, 2016,- Msc thesis, Ms. Esther Sheila Philip, "Occurrence of sugarcane ratoon stunting disease in Nyando Sugar Belt and its management by hot water treatment". **University of Nairobi**Nov 3, 2014- Msc thesis, Ms. Pacifica Bosibori Ochichi, "Effect of cropping systems on the occurrence of fungal and bacterial diseases of legumes in Western Kenya". **University of Nairobi.**

18. March 31, 2016: MSc thesis Ruth Wambui Mwangi, title: "Biocontrol of selected oyster mushroom diseases and contaminants using antagonistic fungi and bacteria". **Egerton University**.
19. Feb 24, 2016 – MSc Asha Bakari, title: "Population of *Aspergillus* section Flavi and Aflatoxin Contamination in Maize from fields treated with atoxigenic *Aspergillus flavus* (Aflasafe KE01) in lower Eastern Kenya". **University of Nairobi**.
20. 2016 Jan, Msc thesis, Ms. Lucy W. Muriithi, title: "Impact of coffee certification among smallholder farmers in Embu County, Kenya". **Kenyatta University**.
21. Oct 21, 2015 – MSc thesis Gertrude Okutoyi ; "Spatial and temporal dynamics of coffee berry disease and coffee leaf rust in Muranga County, Kenya". **University of Nairobi**.
22. September, 2015 – MSc thesis- Cyrus Mugambi Micheni, "Genetic diversity of Aloe species in Kenya and their efficacy on *Fusarium oxysporum* and *Pythium ultimum*". **University of Nairobi**.
23. 2015 July - Msc thesis, Ms. Joyce Wambui Kibunja, title: "Effect of endophytic fungi and resistant tomato cultivars on *Meloidogyne* spp. in the Coastal region, Kenya". **Kenyatta University**
24. 2015, Feb Msc thesis, KARIUKI JENIFFER MUTHONI, I56/CE/22247/2010. Combining ability of inbred lines of maize (*Zea mays* L.) And stability of respective single crosses in Kiambu and Embu counties, Kenya. Kenyatta University
25. 2014 Oct Msc thesis, Ms. Mugao Lydia Gakunyi, Title; Tomato post-harvest spoilage, causes and use of selected botanical extracts in their management in Mwea, Kirinyaga County, **Kenyatta University**
26. July 30, 2014, MSc thesis, MR. WILFRED AYUGI OSAO, "Aspergillus species and aflatoxin contamination in pre- and post-harvest peanuts in baringo, Elgeyo-Marakwet and Meru Counties in Kenya". **University of Nairobi**.

1.7.4 REFEREE FOR JOURNALS / MEMBERSHIP OF EDITORIAL BOARDS

1. 2017: Reviewer, Crop protection Journal @ Elsevier.com
2. 2016: Reviewer, Science Domain International
3. 2016: Reviewer, Scientific Reports, published @ Nature.com
4. 2016: Reviewer, Journal of Food Research.
5. 2014-: Editor, Journal of Plant and Animal Sciences
6. 2013- 2015: Editor, African Journal of Horticultural Sciences
7. 2010-: Editor, Journal of Applied Biosciences

1.7.5 CONSULTANCIES FOR EXTERNAL ACADEMIC OR PROFESSIONAL ORGANISATIONS

1. 2016: Member of Judging panel- Total start-upper challenge innovation competition. Total Kenya/ Chandaria BIIC.

2. 21st – 25th November 2016. Facilitated training on Value Chain Concept and Resource mobilization / Networking during training workshop for Transformative leadership in agribusiness workshop. Theme- Unleashing the potential in Agribusiness on a transformative approach. ACTIL, Kenyatta University.
3. 15-16th March, 2016: Invited to present paper on “Communicating and publishing research” during Roundtable on Research and Knowledge systems in Somalia. INASP and Rift Valley Institute. British Council, Nairobi, Kenya.
4. 7th – 9th October 2015: facilitated training on Networking Skills during workshop for Transformative leadership and entrepreneurship training for women in the banking industry. GULF Bank/ ACTIL, Kenyatta University.
5. 18th – 25th October, 2015. Facilitated expert input to training on “Women Economic Empowerment 2014 Alumni follow up workshop. ACTIL/ Kenyatta University.
6. 21st – 24th October 2014: facilitated training with UN Women-ACTIL on “Sourcing for Grants / Funds” during training workshop on Transformational Leadership for University Women, Kenyatta University.
7. 9th – 15th November 2014. Facilitated training on Opportunities and challenges in agribusiness from a gender perspective” during workshop for Women in Agribusiness-leaders training. Theme- moving from business by necessity to business by choice. ACTIL/ Kenyatta University.
8. 2012-2013: Judge panel, Next Big Thing innovations competition, Nation Media/ Chandaria BIIC
9. 2nd – 7th December 2013: Facilitated training with UN Women- ACTIL to Ethiopian women during Workshop on transformational leadership in agribusiness for Ethiopian leaders. Addis Ababa, Ethiopia.
10. 2012: Lead consultant on *Assessment of Quality Management of the Kenya National Domestic Biogas Programme (KENDBIP)*, April – June 2012. Implementers SNV (Netherlands), Hivos, KENFAP (Kenya).
11. Reviewer for research proposals in the Staple Crops Programme of ASARECA, *“Innovations for sustainable production and utilization of pearl millet in drought prone areas of East & Central Africa”*. April 2011, Entebbe Uganda.
12. 2011: Baseline assessment of the AGRA ISFM programme at KU, March 2011.
13. Reviewer for research proposals submitted to the High Value Non-Staple Crops (HVNSC) programme of ASARECA. *“Utilisation of bean innovations for food security and improved livelihoods in eastern and central Africa.”* October 2010, Entebbe, Uganda.

1.8 COMMUNITY SERVICE AND OTHER ENGAGEMENTS

1.8.1 APPOINTMENT TO SERVICE COMMITTEES / BOARDS

1. 2012 – 2015: Member Executive Committee, Horticultural Association of Kenya.

2. 2015: Appointed Chairman, Local organising committee of the 1st Kenyatta University, School of Agriculture SAED Biennial Conference.
3. 2016: Member, Local organising committee of the 2nd biennial School of Agriculture conference.
4. 2017, 19th Dec: Appointed Member, organising committee of the 1st All Africa Post Harvest congress and Exhibition.

1.8.2 SERVICE TO LOCAL HOME COMMUNITY

1. Coordinating, Mukuyu Riverside Residents
2. Member, Finance team, KAG Parklands Church. 2013- Current
3. Member, Board of Management, Tigoni Primary School. 1st April 2016 - 2017
4. Chairman, Lower Karanjeje Residents Association. 2012 - 2016

1.9. MEMBERSHIP TO PROFESSIONAL BODIES

1. 2011 TO DATE: International Society of Horticultural Sciences, M.No. 55067
2. 2011 TO DATE: Horticultural Association of Kenya
3. 2007 TO DATE: ProMusa – the Global banana researchers’ network.

2.0 NATIONAL AND INTERNATIONAL AWARDS AND RECOGNITIONS

2.1 ADMINISTRATIVE POSITIONS HELD

2.1.1 RECOGNIZED UNIVERSITY ADMINISTRATIVE POSITIONS

1. 1st August 2018 – current: Director, Research Support and Dissemination, KU.
2. May 2016 to 30th July 2018: Director, Research Support, Kenyatta University.
3. April 2011 – May 2016: Director, Grant Writing and Management
4. Various dates: Acting Registrar- Research, Innov. and Outreach.

2.1.2 MEMBERSHIP TO OTHER COMMITTEES OR UNIVERSITY BOARD

1. 30th Jan 2019 – Member, Endowment and Alumni programmes Directorate Board, KU.
2. 2019- Chair, Marketing and Publicity Subcommittee, KU Biennial Research and Innovation exhibition.
3. 2016 – Current: Member, Kenyatta University Research Advisory Board.
4. 2014 – 2016: Member, Board of Management of Chandaria Business Innovations and Incubation Center (CBIIC), Kenyatta University.
5. 2015 – 2017: Board Member, Centre for International Partnerships and Collaborations, Kenyatta University.
6. 2013 –2017 : Board Member, Institute of African Studies at Kenyatta University.
7. 2010- 2011: Coordinator: Open, Distance and e-Learning programmes in School of Agriculture and Enterprise Development, KU.
8. 2009 – 2011: Coordinator: Quality Management Systems and ISO standards in School of Agriculture and Enterprise Development and also Department of Agricultural Science and Technology.

9. 2009 – 2011: Examinations Coordinator: Department of Agricultural Science and Technology.
10. 2011- current: Professional Mentor in Agribusiness innovations at Chandaria BIIC
11. 2013 - current: Lead trainer in Agribusiness at the African Centre for Transformative and Inclusive Leadership (ACTIL), UN Women / Kenyatta university centre.
12. 2014/2015/2017: Development of the Agribusiness training module and curriculum for the KU-UN Women-ACTIL (African Centre for Transformative and Inclusive Leadership).
13. 2015 – current: appointment to various Departmental committees including head of subject section-Plant pathology; management and advisory committee; examination moderation committee; research and resource mobilisation committee; departmental advancement, community outreach, linkages and consultancy committee
14. 2015 - current: member, Committee of the African Development Bank Doctoral and MSc training programme in Chemistry and Physics SPAS.
15. 2015: Policy development committee for Chandaria BIIC.
16. 2015: Policy Development committee for the Centre for Partnerships and International Collaborations.
17. 2014 - current: member Kenyatta University speeches writing committee
18. 2017: member UBORA and ABEM project / grant implementation committee.

****CV end****

Updated July 16, 2019