



Some of the awards



Launching a book in 2020 by the Prime Minister of Uganda,
The Ambassador of The Netherlands and The Minister of Agriculture



Launching a book on 11th February 2023 by The Ambassador of The Netherlands and The Minister of
Agriculture, Uganda

Detailed curriculum vitae for Dr. Jolly Mary L. Kabirizi

Name: Kabirizi Jolly Mary L.

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Marital status: Married with 3 children

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Educational qualification:

2003-2006: PhD degree (Animal science), Makerere University, Uganda

1994-1996: MSc degree (Agriculture, Animal Science), Makerere University.

1972-1975: BSc (Agriculture, Upper Second Class degree, Animal science Option), Makerere University

1966-1972: East African Certificate of Education and East African Advanced Certificate of Education, Trinity College Nabbingo, Kampala

Working positions:

Dates	Position
2018 up-to-date	<ul style="list-style-type: none"> Private Livestock consultant, The Green Elephant Uganda Executive Director, Climate Change and Environment Associates (CCEA), Executive Director, Kyakuwa Farm, Seguku Cell 4, Makindye Ssabagabo Municipal Council, Wakiso district
2016-2018	<ul style="list-style-type: none"> Senior Principal Research Officer/ Forage science, National Livestock Resources Research Institute (NaLIRRI), National Agricultural Research Organization.
1992-2016	<ul style="list-style-type: none"> Head, Animal Nutrition Programme, National Livestock Resources Research Institute
1991-1992	<ul style="list-style-type: none"> Assistant to the Presidential Advisor on agricultural matters, President's Office, Uganda
1975-1990	<ul style="list-style-type: none"> Regional Animal Production Officer, Livestock Services Project World Bank, Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), Uganda.

Publications in scientific journals

- Kabirizi, J. M. L. 1991. Pasture seed production in Uganda. International Herbage Seed Production Research Group Newsletter. Vol Number 13. pp. 17-18. December 1990.
- Kabirizi, J.M.L. 1996. Productivity of *Lablab purpureus* [L. Sweet] cv Rongai and its feeding value as a supplement for lactating dairy cows. MSc. Thesis, 1996.
- Kabirizi, J. M.L. and Drania, A. 1997. The contribution of the Heifer Project for Women Farmers in Mpigi District (HPWF) to dairy development in Uganda. In: Cattle Research Network Newsletter. International Livestock Research Institute. Vol. 21.

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5. **Kabirizi, J. M.L.** 2002. Promoting the use of fodder banks in Uganda. In: AgriForum. ASARECA (Association for Strengthening Agricultural Research in Eastern and Central Africa). No. 19 April-June 2002.
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9. **Kabirizi J.M.L.**; Nanyenya, W.; Ebong, C.; Odogola, G.W.; Mugerwa, J. and Kayiwa, S. 2003. Improving feed resources availability on smallholder dairy farms: A case study of Kasenge parish, Mukono district. *Uganda Journal of Agricultural Sciences*. Vol. 8. No. 10. January 2003. pp. 395-400.
10. **Kabirizi J.M. L.**; Mpairwe D; Mutetikka D 2004. Incorporating leguminous forages in intensive smallholder dairy cattle production systems in Masaka district, Uganda: farmers' experiences and lessons learnt. *Uganda Journal of Agricultural Sciences*, Vol 9 Part 3 of 3.
11. **Kabirizi J.M.L.**; Mpairwe, D. and Mutetikka, D. 2004. Testing forage legume technologies with farmers: A case study of Masaka district, Uganda. *Uganda Journal of Agricultural Sciences*. Vol. 9. No.3. September 2004. pp. 906-913. SSN 1026-0919.
12. **Kabirizi J.M.L.** 2005. Research and development on indigenous fodder trees and shrubs in Uganda. Country Report. In: Teemba, L. 2005. Research and development on indigenous fodder trees and shrubs. Proceedings of Regional workshop, RELMA in ICRAF, 15-17 September 2004. World Agroforestry Centre-Eastern and Central Africa Regional Programme (ICRAF ECA). ECA Working Paper No. 5. 2005. pp 5-23.
13. **Kabirizi J.M.L.**; Mpairwe, D. and Mutetikka, D. 2005. Improving fodder and food production in smallholder crop/livestock farms in Uganda: Integrating forage legumes in the farming systems. In: Tenywa, J.S.; Adipala,B; Nampala, P.; Tusiime, G.; Okori, P. and Kamuhangire, W. *The African Crop Science Proceedings*, Vol. 7. pp 119-121, 5-9 Dec. 2005.
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<http://www.academicjournals.org/ajar/contents/2007cont/Apr.htm>
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23. Jens Aagaard-Hansen, Carl Erik Schou Larsen,, Niels Halberg, Carsten Nico Portefee Hjortsø, Quentin Gausset, **Kabirizi J.M.L.** 2007. Main-streaming Participatory and Cross-disciplinary Approaches in Animal Science Research in Developing Countries. *African Journal of Agricultural Research* Vol. 2 (4). pp. 119-130.
<http://www.academicjournals.org/ajar/contents/2007cont/Apr.htm>
24. **Kabirizi J.M.L.** and Kwesiga, C. 2008. Integrating forage legumes in smallholder crop-livestock farming systems: Impact on feed and animal productivity and household income. <http://info.worldbank.org/etools/does/library/243693>.
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33. Mulaa, M.; **Kabirizi J.M.L.**; Pallangyo, B.; Hanson, J.; Proud, J.; Mukiibi, E.; Maeda, C.; Wanjala, B.; Awalla, B.J. and Namazzi, C. 2013. Diversity, biomass and resistance to stunt in Napier grass clones in East and Central Africa region. In: Ndikumana, J.; Mubiru, S.; Zziwa, E. and Tenywa, J.S. (eds) 2013. Enhancing the competitiveness of the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda pp 27-34. ISBN: 978-92-95070-96-7
34. Namazzi, C.; Hanson, J.; Proud, J.; **Kabirizi J.M.L.**; Mulaa, M. and Pallngayo, B. 2013. Evaluations of East African Napier grass clones for nutritive quality and the potential effect of stunt. In: Ndikumana, J.; Mubiru, S.; Zziwa, E. and Tenywa, J.S. (eds) 2013. Enhancing the competitiveness of the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda. pp. 45-52. ISBN: 978-92-95070-96-7

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39. Swidiq Mugerwa, Emmanuel Zziwa and **Kabirizi J.M.L.** 2014. Effect of fortifying Aflatoxin-contaminated feeds with Ugandan bentonite on performance of broiler birds. *App. Sci. Report*.3 (1), 2013: 106-109.
40. **Kabirizi J.M.L.**; Mugerwa, S.; Ndikumana, J.; Njarui, D. M. G.; Kaganda, S.; Mwilawa, J.; Minani, E.; Nijimbere, A.; Wanyama, J.; Zziwa, E.; Nanyeenya, W.; Itabari. J. 2014. Climate change technologies for improved livelihoods of smallholder crop-livestock farmers in Eastern and Central Africa. *Resources and Environment*. p-ISSN: 2163-2618 e-ISSN: 2163-2634. 2014; 4(1): 54-57. doi:10.5923/j.re.20140401.06
41. **Kabirizi J.M.L.**, Emma Zziwa, Swidiq Mugerwa and Agnes Namagembe. 2013. Dry season forages for improving dairy cattle production in smallholder dairy systems. **In:** David L Michalk et. al., 2013. Revitalising Grasslands to Sustain our Communities: Proceedings 22nd International Grassland Congress, Sydney, Australia pp 812-814. Print ISBN: 978-1-74256-543-9
42. Mulaa, M.; **Kabirizi J.M.L.**; Pallangyo, B.; Hanson, J.; Proud, J.; Mukiibi, E.; Maeda, C.; Wanjala, B.; Awalla, B.J and Namazzi, C. 2013. Diversity, biomass and resistance to stunt in Napier grass clones in East and Central Africa region. **In:** Ndikumana, J.; Mubiru, S.; Zziwa, E. and Tenywa, J.S. (eds) 2013. Enhancing the competitiveness of the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda pp 27-34. ISBN: 978-92-95070-96-7.
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- the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda, pp. 337-344. ISBN: 978-92-95070-96-7.
44. Namazzi, C.; Hanson, J.; Proud, J.; **Kabirizi J.M.L.**; Mulaa, M. and Pallngayo, B. 2013. Evaluations of East African Napier grass clones for nutritive quality and the potential effect of stunt. In: Ndikumana, J.; Mubiru, S.; Zziwa, E. and Tenywa, J.S. (eds) 2013. Enhancing the competitiveness of the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda pp. 45-52. ISBN: 978-92-95070-96-7.
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 47. **Kabirizi J.M.L.**, Ndikumana, J., Njarui, D.M.G., Mwilawa, A.J., Minani, E., Mugerwa, S., Zziwa, E., Wanyama, J., Kiyimba, L.F., 2014. Improving livelihoods in smallholder crop-livestock farming systems in the Eastern and Central Africa region; a catalogue of proven and practical climate smart agricultural technologies and innovations. Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) region. April 2014. [file:///c:/users/user/downloads/catalogue of proven climate smart technologies.pdf](file:///c:/users/user/downloads/catalogue%20of%20proven%20climate%20smart%20technologies.pdf)
 48. E O Mungube, D M G Njarui, M Gatheru, **Kabirizi J.M.L** and J Ndikumana. 2014. Reproductive and health constraints of dairy cattle in the peri-urban areas of semi-arid eastern Kenya. *Livestock Research for Rural Development* 26 (06) 2014
 49. M G Njarui, J K Itabari; **Kabirizi J.M.L** and A J Mwilawa. 2014. Water sources and quality for dairy cattle in smallholder farms in semi-arid Kenya. *Livestock Research for Rural Development* 26 (08) 2014. <http://www.lrrd.org/public-lrrd/proofs/lrrd2608/njar26152.html>
 50. **Kabirizi J.M.L** Mugerwa, S.; Ndikumana, J.; Njarui, D. M. G.; Kaganda, S.; Mwilawa, J.; Minani, E.; Nijimbere, A.; Wanyama, J.; Zziwa, E.; Nanyeenya, W.; Itabari, J. 2015. Climate change technologies for improved livelihoods of smallholder crop–livestock farmers in Eastern and Central Africa. In: Judith Anne Francis. 2015. Agricultural innovations for sustainable development. Contributions from the 3rd Africa-wide women and young professionals in science competition. Synthesis report: lessons learned. <http://knowledge.cta.int/>. Vol. 4: issue 3. pp. 75-82.
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52. Bakyusa Katongole, C., **Kabirizi J.M.L.**, Ntege Nanyeenya, W., Kigongo, J. and Nviiri, G. 2016. Milk yield response of cows supplemented with sorghum stover and *Tithonia diversifolia* leaf hay diets during the dry season in northern Uganda. *Trop Anim Health Prod* (2016) 48: 1463. Doi:10.1007/s11250-016-1119-1.
53. Galla N. A., Nampija Z.; Lutwama V.; Mayanja S.; Grant F.; Kyalo G.; Kiggundu M.; Zziwa E.; Nambi-Kasozi J. ; **Kabirizi J.M.L.** 2020. Effects of inclusion levels of sweet potato vine silage on feed intake, milk production and profitability of lactating crossbred dairy cows. 2020 . Open Journal of Animal Science. 2020, 10, 608-617.
54. Gumisiriza, S.M.; **11. Kabirizi J.M.L L.** Mugerwa, Ndakidemi, P.M. and Mbega, E.R. 2022. Can soilless farming feed urban East Africa? An assessment of the benefits and challenges of hydroponics in Uganda and Tanzania. [Environmental Challenges Volume 6](#), January 2022, 100413.

Some of the papers presented and published in scientific conference proceedings

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2. **Kabirizi J.M.L.**1994. The role of the legumes in pastures. Proceedings of the Range Development Orientation technical Workshop, Mukono D.F.I. 8th -14th May 1994.
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1. **Kabirizi J.M.L.** 1997. Dry season feeding strategies for dairy farmers in Uganda. Proceedings of the 2nd Uganda National farmers' Workshop held at UNFA headquarters, Kampala on 17th-19th, March 1997.
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 9. **Kabirizi J.M.L.** and Ebong, C. 2000. *Lablab purpureus* (Lablab) hay as a dry season protein supplement for lactating dairy cows. Proceedings of The International Follow-up workshop on Ecofarming in Africa held at Bamenda, Cameroon, 30th October to 10th November 2000.
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94. **Kabirizi J.M.L.**; Njarui, D.M.G.; Itabari, J.K.; Mugerwa, S.; Nanyennya, W.; Kaganda, S.; Nakiganda, A.; Nizigama, J.; Namagembe, A.; Namazzi, C. and Milawa. 2012. Crop-livestock integration for sustainable management of natural resources in ECA region. [ASARECA] Association for Strengthening Agricultural Research in Eastern and Central Africa. Feeding our region in the 21st century. First ASARECA General Assembly. Volume 1 Proceedings. Entebbe, Uganda; 14th to 16th December 2011. pp. 84-85.
95. Mugerwa, S.; Zziwa, E. and **Kabirizi J.M.L.**. 2013. Environmental assessment of climate smart agricultural interventions in smallholder crop-livestock production systems. Book of Abstracts of the 2013 Annual Symposium and Annual General meeting (AGM) of the Animal Production Society of Kenya, 11th to 12th April 2013.
96. **Kabirizi J.M.L.**; Ndikumana, J.; Zziwa, E.; Mugerwa, S. and Asuma, J. 2013. The potential of *Brachiaria* hybrid cv. Mulato as a feed resource in smallholder dairy systems. Book of Abstracts of the 2013 Annual Symposium and Annual General meeting (AGM) of the Animal Production Society of Kenya, 11th to 12th April 2013. pp.24.
97. **Kabirizi J.M.L.**, Zziwa, E., Mugerwa, S. and Namagembe, A., 2013. Dry season forages for improving dairy cattle production in smallholder dairy systems. In: David L Michalk et. al., 2013. Revitalising Grasslands to Sustain our Communities: Proceedings 22nd International Grassland Congress, Sydney, Australia pp 812-814. Print ISBN: 978-1-74256-543-9.
98. **Kabirizi J.M.L.**; Mugerwa, S., Namazzi, C., Kawube, G., Nampijja, Z., G. Lukwago and M. Mulaa. 2013. Evaluation of Napier grass (*Pennisetum Purpureum*) accessions for tolerance to Napier stunt disease. Proceedings of EAAPP Mini-Scientific Conference Held at the Regional Dairy Centre of Excellence, 12th to 15th November 2013, Kenya Agricultural Research Institute, Naivasha. http://www.rdcoe.or.ke/disease_challenges.
99. **Kabirizi J.M.L.**; Mugerwa, S.; Nanyeenya, N.W.; Mwilawa, A.; Masunga, W.; Njarui, D.M.G.; Itabari, J.K.; Minani, E.; Wanyama, G.; Zziwa, E and Ndikumana. 2013. Climate smart agriculture technologies for food security and poverty alleviation in smallholder dairy-vegetable systems in Eastern and Central Africa. Livestock and Fisheries Programme Scientific conference. Book of abstracts. pp. 8.
100. **Kabirizi J.M.L.**; Ndikumana, J.; Zziwa, E.; Mugerwa, S. and Asuma, J. 2013. The potential of *Brachiaria* hybrid cv. Mulato as a feed resource in smallholder dairy systems. Book of Abstracts of the 2013 Annual Symposium and Annual General meeting (AGM) of the Animal Production Society of Kenya, 11th to 12th April 2013. pp.24.
101. **Kabirizi J.M.L.**; Ndikumana, J.; Zziwa, E.; Mugerwa, S. and Asuma, J. 2013. The potential of *Brachiaria* hybrid cv. Mulato as a feed resource in smallholder dairy systems. first Special Issue IGC2013 with all papers belonging to the IGC 2013 session 1.2.1 ("Development and Impact of Sown Tropical Species") <http://tropicalgrasslands.info/index.php/tgft/issue/current/showToc>.

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103. **Kabirizi J.M.L.**; Njarui, D.M.; Itabari, J.K.; Nakiganda, A.; Kaganda, A. and Nizigama, J. 2013. Soil fertility management options in smallholder crop-livestock farming systems in East and Central Africa region. In: Ndikumana, J.k Mubiru, S.; Zziwa, E. and Tenywa, J.S. (eds) 2013. Enhancing the competitiveness of the livelihoods in Eastern and Central Africa. Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda, pp.276-284. ISBN: 978-92-95070-96-7.
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105. **Kabirizi J.M.L.**; Njarui, D.M.G.; Itabari, J.K.; Mugerwa, S.; Nanyennya, W.; Kaganda, S.; Nakiganda, A.; Nizigama, J.; Namagembe, A.; Namazzi, C. and Milawa. 2013. Improving smallholder dairy production systems through participatory evaluation of climate change adaptation technologies and innovations. Proceedings of 8th ESADA Dairy Conference and Exhibition, Kenya, 14th to 16th April 2012.
106. **Kabirizi J.M.L.** 2013. Climate change technologies for improved livelihoods of smallholder crop-livestock farmers in Eastern and Central Africa region http://www.fara-africa.org/media/uploads/File/news/finalists_women.pdf (Top 10 final papers of the 2013 All Africa-Wide Women in Science Competition)
107. Kigongo, J., Paul, B.K., Zziwa, E., Maass, L. M., **Kabirizi J.M.L.**, 2013. Evaluating drought tolerant improved forage legumes for enhanced smallholder dairy productivity in Uganda. Paper presented during Tropentag, September 17-19, 2013, Stuttgart-Hohenheim, Germany "Agricultural development within the rural-urban continuum".

Sixty two (62) scientific papers presented during the period of 2013 to 2023

List of books, book chapters and manuals

1. Mpiiri, S., Staver, C., Kagezi, G.H., Wesige, J., Nakeyune, C., Sebuliba, G., **Kabirizi, J.**, Nowakunda, K., Karamura, E. and Tushemereirwe, W. K., 2013. *In: G. Blomme, P. Van Asten and B. Vanlauwe (eds).The use of trees and shrubs to improve banana productivity and production in Central Uganda. An analysis of the current situation" CABI International 2013 Chapter 19. Banana systems in the humid highlands of Sub-Saharan Africa.*
2. **Kabirizi J.M.L.**; Mugerwa, S.; Kirunda, H.; Lukwago, G.; Oluka J.; Butungi, S.; Ssemabo, D.K.K.; Mubiru, F.; Nakimbugwe, H. 2014. Feed resources management, genetic improvement and disease control in smallholder dairy systems. ISBN 9789970926909.
3. **Kabirizi J.M.L.**; Muyekho, F.; Mulaa, M; Msangi, R.; Pallangyo, B.; Kawube, G.; Zziwa,E.; Mugerwa, S.; Ajanga,S.; Lukwago, G.; Wamalwa N.I. E; Kariuki, I.; Mwesigwa, R.; Nannyeenya-Ntege, W.; Atuhairwe, A.; Awalla, J.; Namazzi, C.; Nampijja, Z. 2015. Napier grass feed resource: production, constraints and implications for smallholder farmers in Eastern and Central Africa. **ISBN: 978-9970-9269-1-6**
4. Maass, B.L.; **Kabirizi J.M.L.**; P. D.; Carter, N.; Ouma, E. and Wanjiki, C. 2014. Opportunities for Feeding Forages to Pigs in Uganda. Paper presented during Tropentag 2014: Bridging the gap between increasing knowledge and decreasing resources, September 17 - 19, 2014, Czech University of Life Sciences Prague, Czech Republic. <http://www.tropentag.de/notify.php?code=s78gxeuP>.
5. **Kabirizi J.M.L.**; Lukuyu, Ben; Mayanja, Sarah; Lule Peter, Gerald Kyalo and Diego Naziri. 2015. Sweetpotato Silage Making Manual. <https://nalirri.or.ug/new/wp-content/uploads/2019/11/Sweetpotato-Silage-Making-Manual.pdf>
6. **Kabirizi J.M.L.** ; Lule, Peter; Kyalo, Gerald; Mayanja, Sarah; Ojakol, James Francis; Mutetikka, David; Naziri, Diego and Lukuyu, Ben. 2017. Sweet potato silage manual for smallholder farmers. Expanding utilization of roots, tubers and bananas and reducing their postharvest losses. <file:///C:/Users/dell/AppData/Local/Temp/RTB-Endure-Sweetpotato-silage-Manual-for-Smallholders-Farmers.pdf>
7. **Kabirizi J.M.L.** 2018. Feeding strategies to increase milk yield in smallholder dairy systems. March 2018.
8. **Kabirizi J.M.L.**; Nampijja Z.; Lutwama V.; Kyalo, G.; Mayanja S.; Grant F.; Namagembe A.; Lugoloobi, S. 2019. Sweet potato vines silage for improved dairy and beef cattle production International Potato Centre. Final project report. January 2019.
9. **Kabirizi J.M.L.** 2020. Climate smart forages and supplemental feeds for dairy cattle under zero grazing systems in Uganda. ISBN. 987-9970-865-00-0

10. **Kabirizi J.M.L.**; Musasizi, M.; Busingye E. and Nakayenga D. 2021. Urban Agriculture for Food Security and Sustainable Livelihoods: a case of Kyakuwa Farm, Makindye Municipal Council, Wakiso district, Uganda. March 2021
11. **Kabirizi J.M.L.** 2022. Innovative pig feed resources for safe pork production. April 2022.
12. **Kabirizi J.M.L.** Climate smart technologies and management practices for a profitable goat enterprise in Uganda. July 2022.
13. **Kabirizi J.M.L.** 2023. Unlocking the potential of feed production technologies, innovations and management practices of smallholder dairy cattle farmers in Uganda. February 2023. ISBN. 9789970675951

Some of the consultancies I have implemented (2005-2023)

Period	Consultancy work	Source of funding
January 2002	<ul style="list-style-type: none"> Cattle methane reduction baseline survey in Uganda. 	The Global Livestock Group.
January 2005	<ul style="list-style-type: none"> Research and development on indigenous fodder trees and shrubs in Uganda. 	Farm Africa/ UK Department for International Development (DFID).
15 th July 2015 and 15 th June 2016	<ul style="list-style-type: none"> Designing and implementation of on-farm sweetpotato silage trials and training of farmers in Kamuli and Masaka districts 	International Potato Center (CIP)
September 2015	<ul style="list-style-type: none"> Sweetpotato Silage Making Manual by Jolly M. Kabirizi¹, Ben Lukuyu, Sarah Mayanja, Lule Peter, Gerald Kyalo and Diego Naziri 	International Potato Center (CIP)
April to June 2016	<ul style="list-style-type: none"> Determining carrying capacity of Bukaleeba and Kachung forest reserves under Busoga Forestry Company Limited 	Busoga Forestry Company (BFC) Limited
June 2017	<ul style="list-style-type: none"> Harnessing climate smart technologies for crop-livestock integration to enhance food security and livelihoods resilience to effects of climate change and climate variability in Isingiro and Sembabule districts. 	Food and Agriculture Organization of United Nations
February 2017	<ul style="list-style-type: none"> Produce a "Sweetpotato Silage Manual for Smallholder Farmers" by Jolly M. Kabirizi, PeterLule, Gerald Kyalo, Sarah Mayanja, James Francis 	International Potato Center (CIP)

	Ojakol, David Mutetikka, Diego Naziri and Ben Lukuyu	
March 2017	<ul style="list-style-type: none"> • Translate the manual in Luganda 	International Potato Center (CIP)
20th- 23rd November, 2019	<ul style="list-style-type: none"> • Review and merge Sweetpotato Vine Silage Production and Utilization Training of Trainers in Kwembe, Dar es Salaam Field Report, Tanzania 	International Potato Center (CIP) and African Agricultural Transformation (TAAT) Compact
January 2020	<ul style="list-style-type: none"> • Developing ‘Sweetpotato vines silage technology for livestock feeding’ 	International Potato Center (CIP)
10 th to 15 th March 2020	<ul style="list-style-type: none"> • Capacity building of district extension officers and farmers on forage conservation 	Heifer International
8 th September 2020	<ul style="list-style-type: none"> • Capacity building of district extension officers on pasture establishment and management 	European Union through the National Livestock Resources Research Institute
19 th to 23 rd and from 26 th to 30 th December 2020	<ul style="list-style-type: none"> • Capacity building of dairy cattle farmers in Kyotera district 	Heifer International
October to December 2021	<ul style="list-style-type: none"> • Market Oriented and Environmentally Sustainable Beef Meat Industry in Uganda (MOBIP): Development of a beef nutrition investment plan in Uganda 	European Union and the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF)
August to October 2021	<ul style="list-style-type: none"> • Scaling-up sweetpotato vine silage technology among youth groups in Uganda 	International Potato Center (CIP)
September 2021 to April 2022	<ul style="list-style-type: none"> • Policy Dialogue on Sustainable Use of Rangelands and Cross-Border Natural Grazing Resources: The Case of Karamoja Pastoral Area in Uganda 	Animal Resources, African Union InterAfrican Bureau of Animal Resources (AU-IBAR) and the Intergovernmental Authority on Development (IGAD)
July to August 2022	<ul style="list-style-type: none"> • Capacity building of dairy cattle farmers in Wakiso, Mityana, Kiboga and Kyankwanzi districts 	Heifer International
January 2023	<ul style="list-style-type: none"> • Capacity building of dairy cattle farmers in Nakasongola district 	Heifer International
2 nd March 2023	<ul style="list-style-type: none"> • Capacity building of 30 Bulindo Rotary Club members, Kira 	Bulindo Rotary Club

Membership to professional bodies

1. African Crop Science Society
2. Animal Production Society of Kenya (ASPK)
3. Animal Production Society of Uganda (ASPU)
4. Association of African Women Scientists and Engineers in Africa (AWASE)
5. Association of Uganda Professional Women in Agriculture and Environment (AUPWAE)
6. Association of Professional Women Leaders in Agriculture and Environment (APWLAE)
7. Heifer Project for Women Farmers in Mpigi District (HPWF) Steering Committee
8. International Herbage Seed Production Research Group-Australia
9. International Women Scientists and Engineers (INWSE)
10. Kenyan Society of Animal Production (KSAP)
11. National Executive Committee Member of AUPWAE
12. Networking for Ecofarming in Africa (NECOFA)
13. Networking for Ecofarming in Africa (NECOFA), Uganda Chapter
14. Seguku Christian Dissemination Ministry (SCDM)
15. Tanzanian Society of Animal Production (TSAP)
16. The Advisory Committee of the Heifer Project for Women Farmers in Uganda
17. Uganda National Farmers Association
18. Uganda Goat Network (UGONET)
19. Uganda Pasture Network (UPANE)
20. Uganda Society of Agronomy
21. Uganda Society of Animal Science and Production (USASP)
22. Eastern Africa Goat Network (EAGONET)
23. Women Organizing for a Change in Agriculture and Natural Resource management (WOCAN)
24. Uganda Goat Network (UGONET)
25. Dairy Farmers' Network (DAFAN)
26. Livestock Development Forum (LDF)

Awards

1. Field tour of the smallholder dairy farming systems in Ethiopia, 1996 (Funded by World Bank/Ministry of Agriculture, Animal Industry and Fisheries).
2. Certificate of recognition for improving dairy cattle productivity in Masaka district and rural livelihoods (2004)
3. Field tour of the smallholder dairy farming systems in Ethiopia, 1996 (Funded by World Bank/ Certificate of recognition for improving dairy cattle productivity in Masaka district and rural livelihoods (2004) Given by the farmers in Masaka district
4. Best oral presenter (Certificates and books and money)
5. Best presenter during a Conference on "Regional Symposium on livestock revolution: Challenges and opportunities" at Kenya Agricultural Research Institute (KARI) Headquarters, Conference Hall, Nairobi, Kenya from 15th to 18th March 2004
6. Best presenter during a Conference International workshop on "Enhancing the contribution of small livestock to the rural livelihoods of resource poor communities", Hotel Brovad, Masaka, 15 to 19th November 2004, Ministry of Agriculture, Animal Industry and Fisheries).

7. Best poster presentation during “The Innovation African Symposium”, held at Munyonyo Resort Hotel, Kampala, Uganda, 20th to 23rd November 2006
8. Certificate of recognition for improving dairy cattle productivity in Masaka district and rural livelihoods (2004)
9. A certificate for the best National Agricultural Research Organization (NARO) scientist performer, April 2012.
10. A certificate for the best pasture scientist (Uganda National Farmers Federation, 2013)
11. Best NARO scientist who has contributed to NARO objectives. December 2013
12. A cash award and certificate of merit as one of the 5 top winners of the 2014 “All Africa Young Professionals and Women in Science Competition Finals held at Ghion Hotel, Addis Ababa, Ethiopia. RUFORUM/CTA/ NEPAD/FARA/ATPS/AGRA. The title of the presentation was “Participatory testing of forage legume innovations with women farmers in Masaka district, Uganda: impact on fodder availability, animal performance and household income”. <http://ruforumsecretariat.blogspot.com/> and <http://knowledge.cta.int/en/Dossiers/CTA-and-S-T/ACP-women-and-S-T/Women-in-science-competition>
13. A certificate from The Vision Group and The Netherlands Embassy, Uganda for outstanding contribution to the farming community in Uganda (2014).
14. Best National Agricultural Research Organization (NARO) and Makerere University scientist in disseminating agricultural research technologies (2006-2016) <http://www.naro.go.ug/data/dblog/5/NARO> awards scientist in promoting and disseminating Agricultural Research Technologies.html (November 2016)
15. 2017 International Women Day Golden Jubilee Medal in recognition of my contribution to enhancing the livelihoods of the rural community (March 2017)
16. NARO-NaLIRRI (National Agricultural Research Organization- National Livestock Resources Research Institute) award for resource mobilization and scientific outputs (2018). I have developed and coordinated 17 research and development projects aimed at improve livelihoods of small-scale dairy farmers in Uganda, Kenya, Burundi, Ethiopia and Tanzania (see Table 1).
17. Uganda Golden Agricultural Sector Services Award (22nd April 2022)

Table 1: Donor funded projects developed and coordinated by Dr. Jolly Kabirizi

Title of project and project site (s)	Funding agency/Period	Budget (USD)
1. Improving feed resources availability on smallholder dairy farms (Kasenge parish, Mukono district)	FAO (2001)	12,000
2. Integrating leguminous forages in smallholder dairy farms district to improve feed availability and animal performance (Masaka district)	DANIDA (2001 to 2005)	55,000
3. Elephant grass (<i>Pennisetum purpureum</i>) Stunting Disease Control/Management Strategy in Uganda (Masaka, Wakiso, Soroti, Luwero and Mbale)	DANIDA (2005-2007)	90,000
4. Improving availability of forage seed and planting materials in smallholder dairy systems in Uganda (Masaka, Mbarara, Wakiso, Gulu, Lira and Hoima districts)	The World Bank (2010-2012)	130,000
5. Enhancing adoption of fodder banks and forage conservation technologies (Soroti and Manafwa districts)	The World Bank (2012-2013)	90,000
6. Crop-Livestock Integration for Sustainable Management of Natural Resources and Building Livestock Resilience in Uganda, Tanzania, Kenya and Burundi	ASARECA/World Bank (2011-2013)	420,000
7. Improving rangeland productivity through appropriate rehabilitation methods in Karamoja sub-region	FAO (2014-2015)	150,000
8. Enhancing adoption of Napier grass tolerant to Napier stunt disease for increased feed availability in smallholder cattle systems in Uganda, Tanzania, Burundi, Rwanda, Kenya and Ethiopia	ASARECA (2013-2015)	626,000
9. Evaluation and utilization of sorghum varieties and <i>Tithonia Diversifolia</i> as alternative feed resources for smallholder cattle and goat farmers in war affected areas of Soroti, Lira and Gulu districts	The World Bank (2016-2017)	156,000
10. Dry season forages for improving dairy cattle productivity in smallholder dairy systems (Tororo, Bulindi and Wakiso districts)	CIAT (2016-2017)	30,000

11. Determining carrying capacity of Bukaleeba and Kachung forest reserves under Busoga Forestry Company Limited (Consultancy)	Busoga Forestry Company Ltd. and Green Resource (2016)	15,000
12. Effect of pre and postpartum supplementation with multi-nutrient mineral blocks in Wakiso & Masaka	The World Bank (2014-2016)	50,000
13. Market-based forage conservation innovations for smallholder dairy farmers	The World Bank (2015-2016)	365,000
14. Crop-livestock-fish integration to enhance food security, nutrition and resilience of smallholder farms in Uganda, Kenya, Tanzania, Burundi, Madagascar, Rwanda	World Bank (2013-2016)	6,000,000
15. Harnessing climate smart technologies for crop-livestock integration to enhance food security and livelihoods resilience to effects of climate change and climate variability in Uganda (Isingiro and Sembabule districts)	FAO (2017)	20,000
16. Commercial production of NARO/NaLIRRI feed pellets for improved performance of dairy calves, heifers and cows (Wakiso, Gulu, Masaka, Wakiso and Lira districts)	The World Bank (2017-2018)	200,000
17. On-farm assessment of the potential of sweet potato vine silage in smallholder cattle production systems in Uganda (Wakiso district)	The International Potato Centre (CIP) (2018-2019)	15,000
18. Scaling-up sweetpotato vines silage among youth groups in Wakiso, Kampala and Luwero districts	The International Potato Centre (CIP) 2020-2023	50,000

Dossier of technologies, management practices, feed formulations and prototypes developed/tested and promoted for livestock (dairy, goat, sheep and beef) farmers

1. Sweet potato vine silage
2. Sweet potato vines feed block
3. Improving utilization of grass hay using molasses and poultry litter
4. *Calliandra calothyrsus* (Calliandra) leaf hay
5. Cereal (sorghum, rice, wheat) stover and straw haylage
6. Dairy and beef cattle pellets
7. Homemade dairy meal based on Calliandra leaf hay, maize bran, mineral powder and cotton seed cake
8. Multi-nutrient blocks
9. *Lablab purpureus* cv. Rongai forage as a dry season protein for beef and dairy cattle
10. Recommended acreage for grass-forage legume mixtures for stall-fed dairy cattle

11. Three Napier grass varieties tolerant to Napier stunt disease (79 Napier x Sugar; Kakamega 1 and Kakamega 2)
12. Sweetpotato vine Partial Milk Substitute for calves
13. *Tithonia diversifolia* (Mexican Sunflower) leaf meal protein supplement for dairy cattle
14. Sweet potato vine silage
15. Processed chicken waste as a protein supplement for pigs, cattle and goats

Products to process livestock feed

16. Pelleting machine (in collaboration with Musa Body Limited)
17. Hay baler
18. Fixed knife forage chopper

CAPACITY BUILDING OF STAKEHOLDERS

- 1 I have trained over 35 million (1990-2023) stakeholders (policy makers, women, men, youth groups, students and farmers) in Kenya, Rwanda, Tanzania, Burundi and Ethiopia and Uganda. Below are the districts where the training have been conducted:
 - **Central region:** Masaka, Gomba, Mubende, Kyotera, Luwero, Kiboga, Mityana, Nakasongola, Buikwe, Lugazi, Kayunga, Kalungu, Lwengo, Nakaseke, Bukomansimbi, Wakiso, Mukono, Mpigi & Kampala
 - **Eastern region:** Iganga, Serere, Jinja, Kamuli, Katakwi, Kapchowa, Luuka, Manafwa, Mbale, Soroti & Ngora
 - **Western Region:** Ssembabule, Isingiro, Mubende, Hoima, Masindi, Kyenjojo, Kisoro, Kabalere, Kabale, Bushenyi, Ibanda, Lyantonde, Kiruhura, Mbarara
 - **Northern region:** Kileleshwa, Karamoja, Lira, Apach, Ouke, Gulu & Arua.
 - **Outside Uganda:** Rwanda, Burundi, Tanzania & Kenya (**4 countries**)
- 2 I have trained over 6 million farmers during the Harvest Money Expo (2017, 2018, 2019, 2022 and 2023) organized by Vision Group and supported by The Netherlands Embassy. https://www.newvision.co.ug/new_vision/news/1443495/vision-host-farmers-expo
- 3 At Kyakuwa Urban Model Farm, located in Seguku village, Kampala-Entebbe road, Wakiso district, I have developed and popularized a number of dairy feed and feed management technologies such as: dairy calf and cow pellet, maize stover haylage, nutrient feed blocks, low cost green hydroponics fodder, Wild sunflower leaf hay, silage from sweet potato residues and maize, grass hay, *Tithonia diversifolia* (Wild Sunflower), Calliandra and Gliricidia leaf hay
- 4 I was among the best top 12 farmers who participated in 2014 Uganda Best Farmer Competition and the best zero grazing dairy farmer.

Capacity building of youth groups

Kyakuwa farm provides technical support to a few youth groups who are involved in agricultural activities as a source of employment. The farm has linked a number of youths groups to development agencies such as the International Potato Centre, The World Bank, National Agricultural Research Organization (NARO), National Livestock Resources Research Institute and individuals who have provided financial and/or technical support to the groups. Some of the youth groups that have benefited from Kyakuwa farm activities are:

1. Bavubuka Tweekembe ("Youth Coming Together For A Common Cause")
2. Namulonge-Kasambya sweet potato growing farmer group, Wakiso district
3. Next Generation Agriculture Entrepreneurs Youth Group (Agri-Youth)

The group was formed in July 2020 by a group of students who had returned to their homes due to COVID-19 lockdown. The group is located at Bunnamwaya-Ngobe, Makindye Ssabagabo Municipal Council, Wakiso district (about 5 km along Kabuusu-Kitebi-Lweza road).



A member of Agri-Youth explaining youth activities to Dr. Diana Atwine, the Permanent Secretary, Ministry of Health

4. Kwembe Youth Group, Dar es Salaam, Tanzania. The group was trained to produce and sweet potato silage for sale to livestock farmers.
5. Kanani Primary School, Hoima district. The students participated in a World Bank funded project aimed at introducing agricultural income generating projects among the youth. **(and many more groups)**

Youth Group activities

- Capacity building of students and farmers
- Community Outreach---farmer visits, on-site training radio and TV, community shows and exhibitions.
- Pasture seed and fodder production
- The groups train farmers and youth groups on vegetable growing, sweet potato vine silage making, hydroponic green fodder and charcoal briquettes production.
- Provide services to farmers who want to make sweet potato silage.
- Raise vegetable seedlings and vegetables for sale.
- Produce compressed complete sweet potato vine silage feed blocks for dairy cattle and pig farmers.

Summary of achievements by the Youth Groups

1. The group members trained over 2 million farmers on silage making, pig, dairy and poultry production in 30 districts of Uganda and in Tanzania. The trainings were supported by NARO and the International Potato Center.
2. Members have participated in more than 15 agricultural shows and exhibitions such as Harvest Money Expo, Jinja Agricultural Show and World Food Day agricultural shows. This has equipped them with information on commercial.
3. They have produced and sold over 350 tons of sweet potato silage. The silage is sold mainly to urban and peri-urban dairy and pig farmers at Ushs 350 to 500 per kg.
4. They have created employment opportunities for other youths through production and marketing of 30,000 calliandra seedlings.
5. Working as a group has led to a positive change in behaviour of group members. Some members who were initially riotous have changed their behaviour because they have been interacting with other members who have encouraged them to change to better citizens. They have acquired skills on agribusiness.
6. Some members of the group provide services to farmers who want to make silage but do not have forage choppers or/and time to make silage. Mrs. Martha Namabiro Matovu (Tel. 0774112810) and Mr. Martin Malungu (Tel: 0783348429) are some of the group members who work with other youths to provide services to dairy farmers who want to make silage.

Capacity building of women groups

The following groups have been trained on income generating projects. Some of the groups have been helped to receive funding from the World Bank, DANIDA, FAO and others

1. Seguku Tweekembe Women Group, Wakiso district
2. Gulu Women Dairy Farmers Cooperative Society
3. Akamila Eyiye Group, Kitenga village, Kalungu district
4. Anasumagila Women Group, Lusango, Kalungu district
5. Namulonge Sweet potato Growers Group, Wakiso district
6. Abazaana ba Kabaka, Makindye Ssabagabo Municipal Council
7. Silage making group, Kabale district
8. Bakyala ba Buganda Group and others